APPENDIX G

Sample Input Forms (filled-in)

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CFEIS CAFE Entry Form (SAMPLE)

EPA

Index Number: _____

Entry Field 1:
Input Record
Type

| F | 1 |

Entry Field 2:
Process Code

| |

Entry Field 3:
Manufacturer
Code

| | | 5 | 2 |

Entry Field 4:
Index Number

| | | 1 |

Entry Field 5:
Model Year

| 1 | 9 | 9 | 9 |

Entry Field 6:
Cubic Inch
Displacement

| 1 | 9 | 6 |

Entry Field 7:
Number of
Cylinders

| | 6 |

Entry Field 8:
Combustion Cycle

| G |

Entry Field 9:
Fuel Injection

| M |

Entry Field 10:
Number of Venturi

| | 0 |

Entry Field 11:
Catalyst

| Y |

Entry Field 12:
Feedback Fuel System

| Y |

Entry Field 13:
Variable Displacement

| N |

Entry Field 14:
Turbocharged

| N |

Entry Field 15:
Supercharged

| N |

Entry Field 16:
Number of Valves
per Cylinder

| | 4 |

Entry Field 17:
Police Vehicle

| N |

Entry Field 18:
Engine Block Descriptors

| 1 | 6 | | | | | | | |

Entry Field 19:
Compliance
Category

| 2 |

F1 - CAFE Entry Field Descriptions

Entry Field 1	Input Record Type	F1
Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Replace*: 'R' For *Delete*: 'D' For *Reprocess*: 'S'
Entry Field 3	Manufacturer Code	Valid MANUFACTURER CODE
Entry Field 4	Index Number	001-999
Entry Field 5	Model Year	1970-2100
Entry Field 6	Cubic Inch Displacement	000-999
Entry Field 7	Number of Cylinders	00-99
Entry Field 8	Combustion Cycle	G - Otto Cycle (SI) Piston R - Otto Cycle (SI) Rotary D - Diesel Cycle (CI) 2 - Two Stroke Cycle T - Turbine H - Hybrid Electric E - Electric A - Other
Entry Field 9	Fuel Injection	N - No S - Single M - Multi-point (Default for diesels)
Entry Field 10	Number of Venturi	00 - 99 *Note:* Default is '00'.
Entry Field 11	Catalyst	Y - Yes *Note:* Default is 'Y' N - No
Entry Field 12	Feedback Fuel System	Y - Yes *Note:* Default is 'Y' N - No
Entry Field 13	Variable Displacement	Y - Yes *Note:* Default is 'N' N - No
Entry Field 14	Turbocharged	Y - Yes *Note:* Default is 'N'. N - No C - Yes, with charge air cooling

Entry Field 15	Supercharged	Y - Yes *Note:* Default is 'N'. N - No C - Yes, with charge air cooling
Entry Field 16	Number of Valves per Cylinder	00-09
Entry Field 17	Police Vehicle	Y - Yes *Note:* Default is 'N' N - No
Entry Field 18	Engine Block Descriptors	Text *Note:* Default is 'Blank'.
Entry Field 19	Compliance Category	1 - Domestic Passenger Vehicles 2 - Import Passenger Vehicles 7 - Domestic Trucks 8 - Import Trucks

Index Number:_____

Entry Field 1: Input Record Type	Entry Field 2: Transmission Class Link	Entry Field 3: Transmission Type	Entry Field 4: Drive System	Entry Field 5: Transmission Overdrive	Entry Field 6: Shift Indicator Light	Entry Field 7: Engine Management System	Entry Field 8: Number of Transmission Modes	Entry Field 9: Variable Lockup Point	Entry Field 10: Declutching / Freewheeling
F 2	0 1	L 5	R	2	N	Y	1	1	N

F2 - CAFE Entry Field Descriptions

Entry Field 1	Input Record Type	F2
Entry Field 2	Transmission Class	01-99 Linkage field to 'FF' input record.
Entry Field 3	Transmission Type	C4 - Creeper/Manual 4 - speed M3 - Manual 3 - speed B3 - Both C4 & M3 C5 - Creeper/Manual 5 - speed M4 - No creeper/Manual 4 - speed B4 - Both C5 & M4 M5 - Manual 5 - speed M6 - Manual 6 - speed A3 - No lockup/automatic/3 - speed L3 - Lockup/automatic/3 - speed A4 - No lockup/automatic/4 - speed A5 - No lockup/automatic/5 - speed L4 - Lockup/automatic/4 - speed L5 - Lockup/automatic/5 - speed AV - Automatic variable gear ratios S2 - Semi-automatic 2 - speed S3 - Semi-automatic 3 - speed S4 - Semi-automatic 4 - speed S5 - Semi-automatic 5 - speed
Entry Field 4	Drive System	4 - 4 wheel drive F - 2 wheel drive, front R - 2 wheel drive, rear
Entry Field 5	Transmission Overdrive	1 - No gear ratio < 1 2 - Top gear ratio < 1 *Note:* Default is '2'.
Entry Field 6	Shift Indicator Light	Y - Yes *Note:* Default is 'N'. N - No
Entry Field 7	Engine Management System	Y - Yes Note: Default is 'N'. N - No L - Yes with lockout features

Entry Field 8	Number of Transmission Modes	V - Continuously variable, user selectable C - Computer controlled multiple gear ratios 1-9 - Discrete user-selectable transmission mode N - Not Applicable *Note:* Default is 'N'.
Entry Field 9	Variable Lockup Point	*N, blank* - No variable lock-up point V - Continuously variable C - Computer controlled lock-up 1-9 - Number of discrete lock-up rpm ranges
Entry Field 10	Declutching / Freewheeling	Y - Yes *Note:* Default is 'N'. N - No L - Yes, but with lock-out features

Index Number:_____

EPA

Entry Field 1:
Input Record
Type

F	R

Entry Field 2:
Transmission
Configuration Link

0	1

Entry Field 3:
Gear Range
Number

Entry Field 4:
Gear Ratio First

3	●	1	0	0
	●			
	●			
	●			
	●			

Entry Field 5:
Gear Ratio Second

2	●	5	0	0
	●			
	●			
	●			
	●			

Entry Field 6:
Gear Ratio Third

0	●	8	0	0
	●			
	●			
	●			
	●			

Entry Field 7:
Gear Ratio Fourth

	●			
	●			
	●			
	●			
	●			

Entry Field 8:
Gear Ratio Fifth

●				
●				
●				
●				
●				

Entry Field 9:
Gear Ratio Sixth

●				
●				
●				
●				
●				

Entry Field 10:
Lockup Override

Entry Field 1:
Input Record
Type

F	L

Entry Field 2:
Transmiission
Configuration
Link

Entry Field 3:
Lock-up Range
Number

Entry Field 4:
Lock-up RPM
First

Entry Field 5:
Lock-up RPM
Second

Entry Field 6:
Lock-up RPM
Third

Entry Field 7:
Lock-up RPM
Fourth

Entry Field 8:
Lock-up RPM
Fifth

Entry Field 9:
Lock-up RPM
Sixth

FR and FL - CAFE Entry Field Descriptions

Entry Field 1	Input Record Type	FR
Entry Field 2	Transmission Configuration Link	01-99 Linkage field to 'FF' and 'FL' input records.
Entry Field 3	Gear Range Number	1-9 - Indicates gear range number O - Indicates ratios entered are normal gear ratios (O/D not engaged) N - Indicates ratios entered are O/D gear ratios (O/D engaged) L - Low-end range of gear ratios H - High-end range of gear ratios *Note*: Required if Gear Range data is entered.
Entry Field 4	Gear Ratio First	0.000-9.999
Entry Field 5	Gear Ratio Second	0.000-9.999
Entry Field 6	Gear Ratio Third	0.000-9.999
Entry Field 7	Gear Ratio Fourth	0.000-9.999
Entry Field 8	Gear Ratio Fifth	0.000-9.999
Entry Field 9	Gear Ratio Sixth	0.000-9.999
Entry Field 10	Lockup Override	Y - Yes *Note:* Default is 'N'. N - No

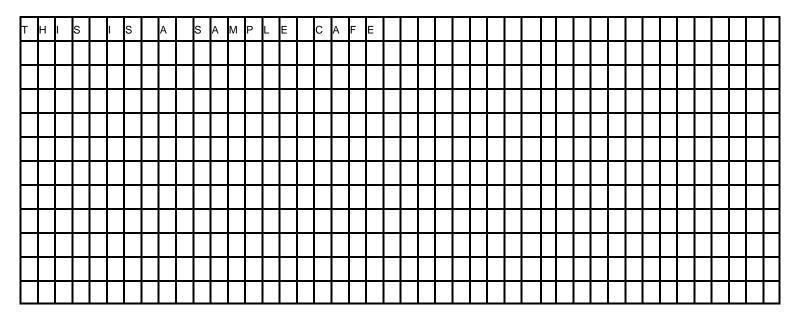| Entry Field 1	Input Record Type	FL
Entry Field 2	Transmission Configuration Link	01-99 Linkage field to 'FR' and 'FF' input records.
Entry Field 3	Lock-up Range Number	1-9 - Indicates lockup range number L - Low-end range of RPM's H - High-end range of RPM's *Note*: Required if Lock-up RPM data is entered.
Entry Field 4	Lock-up RPM First	0000-9999
Entry Field 5	Lock-up RPM Second	0000-9999
Entry Field 6	Lock-up RPM Third	0000-9999
Entry Field 7	Lock-up RPM Fourth	0000-9999
Entry Field 8	Lock-up RPM Fifth	0000-9999
Entry Field 9	Lock-up RPM Sixth	0000-9999

CFEIS CAFE Entry Form (SAMPLE)

EPA

Index Number:_____

Entry Field 1:
Input Record
Type

Entry Field 2:
Comments

F	C

| T | H | I | S | | I | S | | A | | S | A | M | P | L | E | | C | A | F | E | | | | | | | | | | | | | | | | | | | | | | | |

FC - CAFE Entry Field Descriptions

Entry Field 1	Input Record Type	FC
Entry Field 2	Comments	Comments *Note*: Multiple comment input records permitted. 'Replace' deletes old comments and adds new comments, while 'Modify' adds additional input comments to previously stored comments if any.

CFEIS CAFE Entry Form (SAMPLE)

EPA

Entry Field 1: `F` `F`
Input Record Type

Index Number:_____

Entry Field 2: Manufacturer Code	**Entry Field 3:** Division Code	**Entry Field 4:** Car Line Code	**Entry Field 5:** Transmission Class Link	**Entry Field 6:** DVC	**Entry Field 7:** Transmission Configuration Link	**Entry Field 8:** Axle Ratio	**Entry Field 9:** Engine Code
5 2	0 1	0 0 1	0 1	0 0 1	0 1	3 ● 0 7	M 1 0 - 3 2 B - 2

(Axle Ratio column continues with ● marks down the rows)

Entry Field 10: RLC	**Entry Field 11:** ETW	**Entry Field 12:** RLHP	**Entry Field 13:** Altitude Code	**Entry Field 14:** Engine Family Name	**Entry Field 15:** Sub-Configuration Sales
0 1	3 8 7 5	●	3	X T M X V 0 3 . 2 A B C	3 0 0 0

(RLHP column continues with ● marks down the rows)

FF - CAFE Entry Field Descriptions

Entry Field 1	Input Record Type	FF
Entry Field 2	Manufacturer Code	Valid MANUFACTURER CODE
Entry Field 3	Division Code	Valid DIVISION CODE *Note*: Must be associated with a MANUFACTURER CODE.
Entry Field 4	Car Line Code	Valid CAR LINE CODE
Entry Field 5	Transmission Class Link	01-99 Linkage field to 'F2' input record.
Entry Field 6	DVC	001-499: A portion of this configuration is represented by a test vehicle. 501-999: No portion of this configuration is represented by a test vehicle.
Entry Field 7	Transmission Configuration Link	01-99 Linkage field to 'FR' and 'FL' input records.
Entry Field 8	Axle Ratio	0.00-9.99
Entry Field 9	Engine Code	ENGINE CODE
Entry Field 10	RLC	01-49: Used for subconfigurations represented by a test vehicle. 51-99: Used for subconfiguration not represented by a test vehicle.
Entry Field 11	ETW	Valid Equivalent Test Weight within a specified Inertia Weight Class as defined in paragraph § 86-129-80 of the 40 CFR.

Entry Field 12	RLHP	00.0-99.9
Entry Field 13	Altitude Code	1 - Low altitude only 2 - High altitude only 3 - All altitudes *Note:* Default is '3'.
Entry Field 14	Engine Family Name	Valid ENGINE FAMILY NAME
Entry Field 15	Sub-Configuration Sales	000001-999999

Index Number:_____

Entry Field 1: Input Record Type	Entry Field 2: DVC	Entry Field 3: RLC	Entry Field 4: Averaging Group Indicator	Entry Field 5: City Highway Indicator	Entry Field 6: Test Group Weighting	Entry Field 7: Test Number	Entry Field 8: Vehicle Configuration Number
F T	0 0 1	0 1			●		0 1

FT - CAFE Entry Field Descriptions

Entry Field 1	Input Record Type	FT
Entry Field 2	DVC	001-499: A portion of this configuration is represented by a test vehicle.
Entry Field 3	RLC	01-49: Used for subconfigurations represented by a test vehicle.
Entry Field 4	Averaging Group Indicator	A-Z, 1-9 *Note*: Links a group of City or Highway weighted group tests which may span multiple vehicle configurations. This is only needed when spanning multiple vehicle configurations for a group of city or highway tests.
Entry Field 5	City Highway Indicator	C - City Test H - Highway Test
Entry Field 6	Test Group Weighting	0.00-1.00
Entry Field 7	Test Number	Valid existing test number
Entry Field 8	Vehicle Configuration Number	Vehicle (VI) Configuration Number the test is entered against

IOV CFEIS CAFE Entry Form

EPA

Index Number:_____

Entry Field 1:
Input Record Type

F	S

Entry Field 2:
Process Code

Entry Field 3:
Manufacturer Code

		5	2

Entry Field 4:
Model Year

1	9	9	9

Entry Field 5:
Compliance Category

2

Entry Field 6:
Total Sales

		2	0	0	0	0

Entry Field 7:
Average FE Unadjusted
4 Decimal

	●				
	●				
	●				
	●				

Entry Field 8:
Average FE Unadjusted
1 Decimal

	●	
	●	
	●	
	●	

Entry Field 9:
Average FE Adjusted

	●	
	●	
	●	
	●	

Entry Field 10:
Applicable Standard

	●	
	●	
	●	
	●	

FS - CAFE Entry Field Descriptions

Entry Field 1	Input Record Type	FS
Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Replace*: 'R' For *Delete*: 'D' For *Reprocess*: 'S'
Entry Field 3	Manufacturer Code	Valid MANUFACTURER CODE
Entry Field 4	Model Year	1970-2100
Entry Field 5	Compliance Category	1 - Domestic Passenger Vehicles 2 - Import Passenger Vehicles 7 - Domestic Trucks 8 - Import Trucks
Entry Field 6	Total Sales	0000000-9999999
Entry Field 7	Average FE Unadjusted 4 Decimal	00.0000-99.9999
Entry Field 8	Average FE Unadjusted 1 Decimal	00.0-99.9
Entry Field 9	Average FE Adjusted	00.0-99.9
Entry Field 10	Applicable Standard	00.0-99.9

CFEIS Engine Systems Information Entry Form (SAMPLE)

⚘EPA

Entry Field 1:
Input Record Type

| E | 1 |

Entry Field 2:
Process Code

| |

Entry Field 3:
Engine Family/Test Group Name

| X | T | M | X | V | 0 | 3 | . | 2 | A | B | C |

Entry Field 4:
Engine System Number

| 0 | 1 |

Entry Field 5:
Special Compliance Indicator Code

| N | .

Entry Field 6:
Alternate Displacement 1

| | | | • | | |

Entry Field 7:
Alternate Displacement 2

| | | | • | | |

Entry Field 8:
Alternative Displacement 3

| | | | • | | |

Entry Field 9:
Combustion Cycle

| G |

Entry Field 10:
Ignition Type

| S |

Entry Field 11:
Fuel System

| 0 | 8 |

Entry Field 12:
Valves per Cylinder

| 0 | 4 |

Entry Field 13:
Turbocharger Supercharger

| N |

Entry Field 14:
Catalyst

| 0 | 5 |

Entry Field 15:
Trap

| 0 | 0 |

Entry Field 16:
California OBD

| 2 |

Entry Field 17:
Federal OBD

| Y |

Entry Field 18:
Projected Job 1 Date

| 1 | 2 | 3 | 1 | 1 | 9 | 9 | 9 |

Entry Field 19:
Trip Point

| | | | | | |

Entry Field 20:
Production Code

| |

Entry Field 21:
Preconversion Code

| |

Entry Field 22:
CAP2000

| 0 |

E1 - Engine Systems Information Entry Field Descriptions

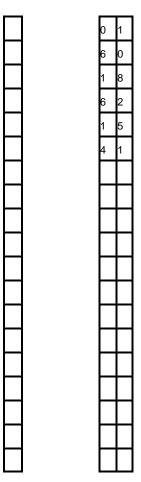|		
Entry Field 1	Input Record Type	E1
Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Modify*: 'M' For *Replace*: 'R' For *Delete*: 'D' For *Report*: 'P' For *Cancel*: 'F' For *Reactivate*: 'G'
Entry Field 3	Engine Family/ Test Group Name	Valid ENGINE FAMILY/TEST GROUP NAME
Entry Field 4	Engine System Number	01-99
Entry Field 5	Special Compliance Indicator Code	Y - Yes N - No
Entry Field 6	Alternate Displacement 1	0000.000-8193.500 or *blank*
Entry Field 7	Alternate Displacement 2	0000.000-8193.500 or *blank*
Entry Field 8	Alternate Displacement 3	0000.000-8193.500 or *blank*
Entry Field 9	Combustion Cycle	G - Otto Cycle Piston D - Diesel Cycle R - Otto Cycle Rotary **See CMUG - Appendix D for more codes**
Entry Field 10	Ignition Type	S - Spark C - Compression **See Note in CMUG - Appendix D**
Entry Field 11	Fuel System	**See CMUG - Appendix D**
Entry Field 12	Valves per Cylinder	**See CMUG - Appendix D**

Entry Field 13	Turbocharger Supercharger	T - Turbocharger S - Supercharger N - None *Note:* Field required on an Add Transaction if no Engine Family Systems exist for the Engine Family.
Entry Field 14	Catalyst	**See CMUG - Appendix D**
Entry Field 15	Trap	1 - Trap - Active Regeneration 2 - Trap - Continuous Regeneration 3 - Trap - Continuous Regen + Fuel Additive 99 - Other (Contact EPA prior to use) **See Note in CMUG - Appendix D**
Entry Field 16	California OBD	N - No OBD 1 - CARB OBD I 2 - CARD OBD II D - OBD with Deficiencies **See Note in CMUG - Appendix D**
Entry Field 17	Federal OBD	Y - OBD N - No OBD D - Yes with Deficiencies **See Note in CMUG - Appendix D**
Entry Field 18	Projected Job 1 Date	Valid calendar date. *Note:* Business rule error if the value after update is blank or null. (mmddyyyy)
Entry Field 19	Trip Point	000000-999999 or *blank*
Entry Field 20	Production Code	0 - 5 *Note:* Indicates the number of years earlier than the certification model year.
Entry Field 21	Preconversion Code	0 - 5 *Note:* Indicates the number of years earlier than the certification model year.
Entry Field 22	CAP2000	0 - Prior to CAP2000 1 - CAP2000 *Note:* Defaults to 0.

CFEIS Engine Systems Information Entry Form (SAMPLE)

EPA

Entry Field 1:
Input Record
Type

Note: The ED Record has been removed.
This Record is no longer required
and should not be submitted.

Entry Field 1:
Input Record
Type

Entry Field 2:
EERC/EVERC
Process Code

Entry Field 3:
EERC/EVERC Code

E	D

E	E

0	1
6	0
1	8
6	2
1	5
4	1

ED and EE - Engine Systems Information Entry Field Descriptions

≿EPA

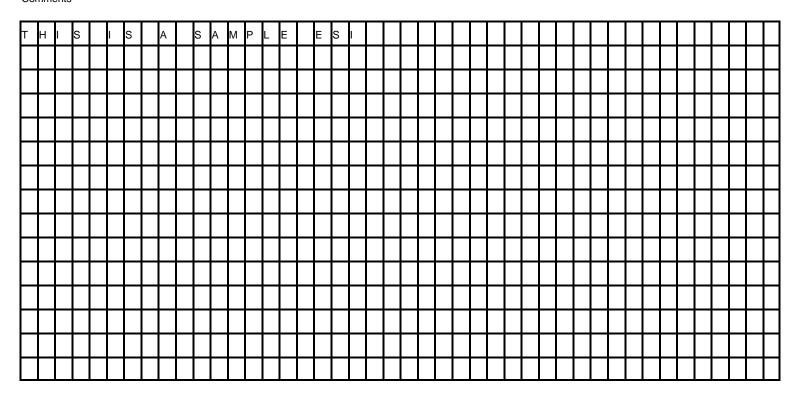| Entry Field 1	Input Record Type	ED The ED Record has been removed. This Record is no longer required and should not be submitted.

Entry Field 1	Input Record Type	EE
Entry Field 2	EERC/EVERC Process Code	For *Add*: 'A' or *blank* - ' ' For *Replace*: 'R' For *Delete*: 'D'
Entry Field 3	EERC/EVERC Code	**See CMUG - Appendix D**

CFEIS Engine Systems Information Entry Form (SAMPLE)

EPA

Entry Field 1:
Input Record
Type

Entry Field 2:
Comments

E	C

| T | H | I | S | | I | S | | A | | S | A | M | P | L | E | | E | S | I |

EC - Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	FC
Entry Field 2	Comments	Text *Note*: Comment text is appended to the end of any existing comment text for Engine Family System.

Entry Field 1:
Input Record
Type

| E | 2 |

Entry Field 2:
Process Code

| |

Entry Field 3:
Engine Family/Test Group Name

| X | T | M | X | V | 0 | 3 | . | 2 | A | B | C |

Entry Field 4:
Engine System Number

| 0 | 1 |

Entry Field 5:
Engine Family
Subsystem Number

| 2 |

Entry Field 6:
Model Year

| | | | | |

Entry Field 7:
Sales Area Code

| C | A |

Entry Field 8:
~~Projected Sales~~
(OBSOLETE)

| | | | | | | |

Entry Field 9:
~~Actual Production~~
(OBSOLETE)

| | | | | | | |

Entry Field 10:
DF Type

| 1 |

Entry Field 11:
GVW Category

| C | L | D | V | | |

Entry Field 12:
Vehicle Class

| | |

Entry Field 1:
Input Record
Type

| E | S |

Entry Field 2:
Process Code

| |

Entry Field 3:
Emission Standards
Fuel Type Code

| G | | |

Entry Field 4:
Exhaust Emission
Standard Code

| C | T |

E2 and ES Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	E2
Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Modify*: 'M' For *Replace*: 'R' For *Delete*: 'D' For *Report*: 'P' For *Cancel*: 'F' For *Reactivate*: 'G'
Entry Field 3	Engine Family/ Test Group Name	Valid ENGINE FAMILY/ TEST GROUP NAME
Entry Field 4	Engine System Number	01-99
Entry Field 5	Engine Family Subsystem Number	1-9
Entry Field 6	Model Year	1970-2100 *Note:* Defaults to derived Engine Family Model Year
Entry Field 7	Sales Area Code	**See CMUG - Appendix D**
~~Entry Field 8~~	~~Projected Sales~~	(Obsolete)
~~Entry Field 9~~	~~Actual Production~~	(Obsolete)
Entry Field 10	DF Type	**See CMUG - Appendix D**
Entry Field 11	GVW Category	**See CMUG - Appendix D**
Entry Field 12	Vehicle Class	Standard Engine Family Vehicle Class

Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Modify*: 'M' For *Replace*: 'R' For *Delete*: 'D'
Entry Field 3	Emission Standards Fuel Type Code	G - Gasoline D - Diesel M - Methanol E - Ethanol C - Compressed Natural Gas (1994-1997) L - Liquid Petroleum Gas (1994-1997) CNG - Compressed Natural Gas (1998 & later) LNG - Liquefied Natural Gas LPG - Liquid Petroleum Gas (1998 & later) N - Not Applicable
Entry Field 4	Exhaust Emission Standard Code	Text (01-32 and AA through ZZ) Standard Engine Family Standard

Entry Field 1	Input Record Type	ES

Entry Field 1:
Input Record Type

E	G

Entry Field 2:
Process Code

Entry Field 3:
Useful Life

0	5	0
1	0	0
0	5	0
1	0	0

Entry Field 4:
Cert / In Use Code

C
C
C
C

Entry Field 5:
Tier

T	L	E	V
T	L	E	V
T	L	E	V
T	L	E	V

Entry Field 6:
Emission Name

N	M	O	G										
N	M	O	G										
C	O												
C	O												

Entry Field 7:
Emission Standard

		0	●	1	2	5	
		0	●	1	5	6	
		3	●	4			
		4	●	2			

Entry Field 8:
Phase In
Percentage

1	0	0
1	0	0
1	0	0
1	0	0

Entry Field 9:
Multiplicative DF

1	●	1	5	9
1	●	2	9	8
1	●	1	1	7
1	●	3	2	0

Entry Field 10:
Additive DF

		●				
		●				
		●				
		●				

Entry Field 11:
Averaging Flag

Entry Field 12:
Banking and
Trading Indicator

Entry Field 13:
Non-Compliance
Penalty Flag

Entry Field 14:
Waiver Flag

EG - Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	EG
Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Modify*: 'M' For *Replace*: 'R' For *Delete*: 'D'
Entry Field 3	Useful Life	000-999, N/A
Entry Field 4	Cert / In Use Code	C - Certification I - In Use *Note:* Value C is assigned as a default if input is blank.
Entry Field 5	Tier	T0 - Tier 0 T1 - Tier 1 T2 - Tier 2 ILEV - Inherently Low Emission Vehicle TLEV - California only - Transitional Low Emission Vehicle LEV - Low Emission Vehicle ULEV - Ultra Low Emission Vehicle SLEV - Super Ultra Low Emission Vehicle ZEV - Zero Emission Vehicle N/A - Not Applicable T1I - Tier 1 Intermediate
Entry Field 6	Emission Name	**See CMUG - Appendix D**
Entry Field 7	Emission Standard	000.0000 - 999.9999 *Note:* The system shall support the entry of emission standards by the user and may additionally provide default values if EPA has applicable standards. Business rule error if the value after update is blank or null.
Entry Field 8	Phase In Percentage	000-100, *blank* Assign value 0 as a default if the value after update is blank or null.

Entry Field 9	Multiplicative DF	0.000 - 9.999 *Note:* This field shall be stored in the database as entered by the user, however IOV CFEIS processes that use this field shall use the value 1 when the value entered is less than 1.
Entry Field 10	Additive DF	-9.999999 - 9.999999 *Note:* This field shall be stored in the database as entered by the user, however IOV CFEIS processes that use this field shall use the value 0 when the value entered is less than 0.
Entry Field 11	Averaging Flag	Y, N, *blank* *Note:* Assign value N as a default if the value after update is blank or null.
Entry Field 12	Banking and Trading Indicator	B, T, N, *blank* *Note:* Assign value N as a default if the value after update is blank or null.
Entry Field 13	Non-Compliance Penalty Flag	Y, N, *blank* *Note:* Assign value N as a default if the value after update is blank or null.
Entry Field 14	Waiver Flag	Y, N, *blank* *Note:* Assign value N as a default if the value after update is blank or null.

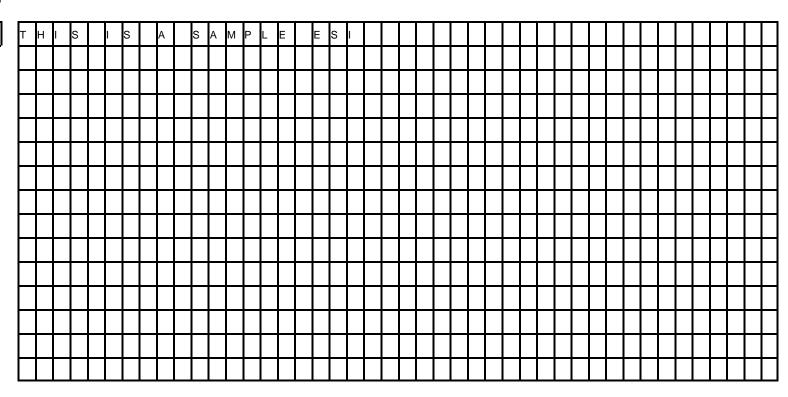# CFEIS Engine Systems Information Entry Form (SAMPLE)

⊕EPA

Entry Field 1:
Input Record Type

Entry Field 2:
Comments

| E | T | T | H | I | S | | I | S | | A | | S | A | M | P | L | E | | E | S | I | | | | | | | | | | | | | | | | | | | | | | |

ET - Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	ET
Entry Field 2	Comments	Text *Note*: Comment text is appended to the end of any existing comment text for Engine Family Subsystem.

CFEIS Evaporative/Refueling Systems Information Entry Form (SAMPLE)

EPA

Entry Field 1:
Input Record
Type

Entry Field 2:
Process Code

Entry Field 3:
Evaporative/Refueling Family Name

Entry Field 4:
Evaporative System
Number

ntry Field 5:
Fuel Induction
Indicator Code

Entry Field 6:
Vapor Storage System

| P | 1 |

| |

| X | T | M | X | E | 1 | 1 | 5 | 5 | A | B | C |

| 0 | 1 |

| 2 |

| 1 |

Entry Field 1:
Input Record
Type

Entry Field 2:
Field Process Code

Entry Field 3:
Canister
Configuration
Number

Entry Field 4:
Canister Bottom

Entry Field 5:
Canister Housing

Entry Field 6:
Purge

| P | F |

(Field Process Code: blank column of cells)

| 0 | 1 |

| N | |

| A | |

| Y | |

Entry Field 1:
Input Record
Type

Entry Field 2:
Field Process Code

Entry Field 3:
Fuel Type

Entry Field 4:
Fuel Tank Material

| P | M |

| |

| G | | |

| M | E | T | A | L |

P1, PF and PM - Evaporative/Refueling Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	P1
Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Modify*: 'M' For *Replace*: 'R' For *Delete*: 'D' For *Report*: 'P' For *Cancel*: 'F' For *Reactivate*:'G'
Entry Field 3	Evaporative/Refueling Family Name	Valid EVAPORATIVE/ REFUELING FAMILY NAME
Entry Field 4	Evaporative System Number	01-99
Entry Field 5	Fuel Induction Indicator Code	1 - Carbureted 2 - Fuel Injection *Note:* Default is '2'.
Entry Field 6	Vapor Storage System	1 - Canister 2 - Crankcase 3 - Air Cleaner 4 - Canister and Crankcase 5 - Crankcase and Air Cleaner 6 - Canister and Air Cleaner 7 - Canister, Crankcase and Air Cleaner *Note:* Field required on an Add Transaction if no Evaporative/ Refueling Family Systems exist for the Evaporative/Refueling Family.

Entry Field 1	Input Record Type	PF
Entry Field 2	Field Process Code	For *Add*: 'A' or *blank* - ' ' For *Replace*: 'R' For *Delete*: 'D'
Entry Field 3	Canister Configuration Number	01-27
Entry Field 4	Canister Bottom	N - Closed Y - Open N/A - Not Applicable
Entry Field 5	Canister Housing	M - Metal P - Plastic N/A - Not Applicable
Entry Field 6	Purge	N - Not Controlled Y - Controlled N/A - Not Applicable

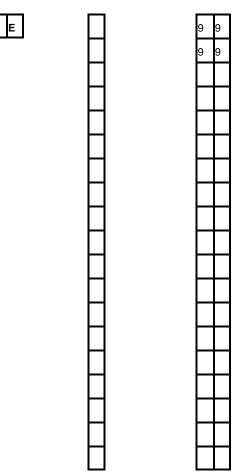|		
Entry Field 1	Input Record Type	PM
Entry Field 2	Field Process Code	For *Add*: 'A' or *blank* - ' ' For *Replace*: 'R' For *Delete*: 'D'
Entry Field 3	Fuel Type	**See CMUG - Appendix D**
Entry Field 4	Fuel Tank Material	Text *Note:* Manufacturer should enter only one of the following: Plastic, Metal, or Combined. A Modify transaction will append to end of existing fuel tank material text. Multiple input records are allowed.

Entry Field 1:
Input Record
Type

Note: The PD record has been removed.
This Record is no longer required
and should not be submitted.

P	D

Entry Field 1:
Input Record
Type

P	E

Entry Field 2:
EERC/EVERC
Process Code

Entry Field 3:
EERC/EVERC
 Code

9	9
9	9

PD and PE Evaporative/Refueling Systems Information Entry Field Descriptions
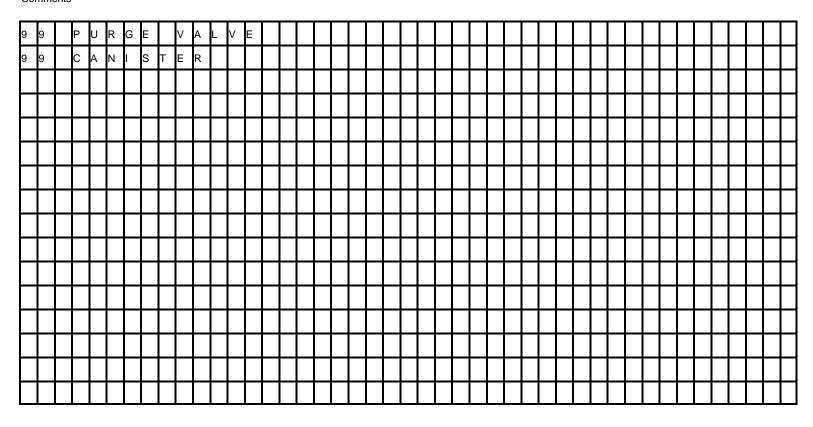
Entry Field 1	Input Record Type	PD The ED Record has been removed. This Record is no longer required and should not be submitted.

Entry Field 1	Input Record Type	PE
Entry Field 2	EERC/EVERC Process Code	For *Add*: 'A' or *blank* - ' ' For *Replace*: 'R' For *Delete*: 'D'
Entry Field 3	EERC/EVERC Code	**See CMUG - Appendix D**

Entry Field 1:
Input Record
Type

Entry Field 2:
Comments

| P | C |

| 9 | 9 | | P | U | R | G | E | | V | A | L | V | E |
| 9 | 9 | | C | A | N | I | S | T | E | R |

PC - Evaporative/Refueling Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	PC
Entry Field 2	Comments	Text *Note*: Comment text is appended to the end of any existing comment text for Evaporative/Refueling Family System.

Entry Field 1:
Input Record
Type

| P | 2 |

Entry Field 2:
Process Code

| |

Entry Field 3:
Evaporative/Refueling Family Name

| X | T | M | X | E | 1 | 1 | 5 | 5 | A | B | C |

Entry Field 4:
Evaporative
System Number

| 0 | 1 |

Entry Field 5:
Evaporative
Subsystem
Number

| 2 |

Entry Field 6:
Model Year

| 1 | 9 | 9 | 9 |

Entry Field 7:
Sales Area
Code

| C | A |

Entry Field 8:
DF Type

| V |

Entry Field 9:
GVW Category

| C | L | D | V | | |

Entry Field 1:
Input Record
Type

| P | S |

Entry Field 2:
Process Code

| |

Entry Field 3:
Emission Standards
Fuel Type Code

| G | | |

Entry Field 4:
Evaporative
Standard

| E | N | H | A |

P2 and PS Evaporative/Refueling Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	P2
Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Modify*: 'M' For *Replace*: 'R' For *Delete*: 'D' For *Report*: 'P' For *Cancel*: 'F' For *Reactivate* :'G'
Entry Field 3	Evaporative/Refueling Family Name	Valid EVAPORATIVE/REFUELING FAMILY NAM,E
Entry Field 4	Evaporative System Number	01-99
Entry Field 5	Evaporative Subsystem Number	1-9
Entry Field 6	Model Year	1970-2100 *Note:* Defaults Model Year is derived from Evaporative/Refueling Family Name.
Entry Field 7	Sales Area Code	**See CMUG - Appendix D**
Entry Field 8	DF Type	EvSI: 1-9, X, W, V *Note:* Business rule error if the value after update is blank or null.
Entry Field 9	GVW Category	**See CMUG - Appendix D**
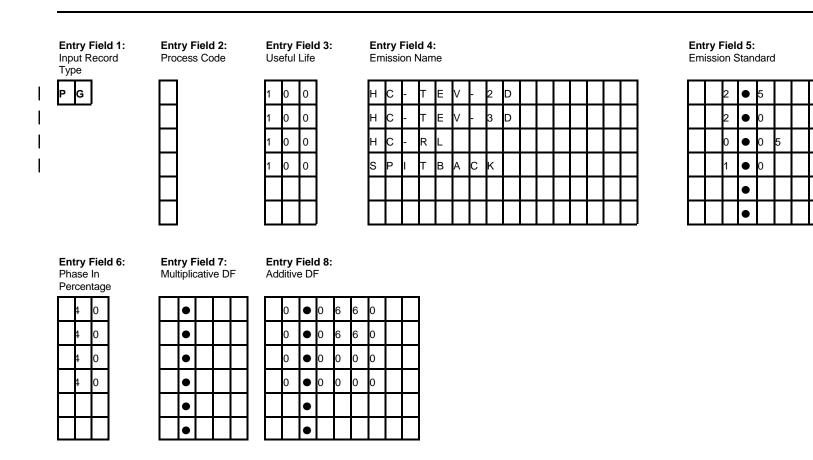
Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Modify*: 'M' For *Replace*: 'R' For *Delete*: 'D'
Entry Field 3	Emission Standards Fuel Type Code	G - Gasoline D - Diesel M - Methanol E - Ethanol C - Compressed Natural Gas (1994-1997) L - Liquid Petroleum Gas (1994-1997) CNG - Compressed Natural Gas (1998 & later) LNG - Liquefied Natural Gas LPG - Liquid Petroleum Gas (1998 & later) N - Not Applicable
Entry Field 4	Evaporative Standard	EXIS - Existing (2 Hour) -- Tier 0 ENHA - Enhanced (2 Day + 3 Day) -- Tier 1

Entry Field 1	Input Record Type	PS

CFEIS Evaporative/Refueling Systems Information Entry Form (SAMPLE)

⊕EPA

Entry Field 1:
Input Record Type

P	G

Entry Field 2:
Process Code

Entry Field 3:
Useful Life

1	0	0
1	0	0
1	0	0
1	0	0

Entry Field 4:
Emission Name

| H | C | - | T | E | V | - | 2 | D | | | | | | |
| S | | | | | | | | | | | | | | |

HC-TEV-2D
HC-TEV-3D
HC-RL
SPITBACK

Entry Field 5:
Emission Standard

	2	●	5		
	2	●	0		
	0	●	0	5	
	1	●	0		
		●			
		●			

Entry Field 6:
Phase In Percentage

4	0
4	0
4	0
4	0

Entry Field 7:
Multiplicative DF

	●			
	●			
	●			
	●			
	●			
	●			

Entry Field 8:
Additive DF

0	●	0	6	6	0		
0	●	0	6	6	0		
0	●	0	0	0	0		
0	●	0	0	0	0		
	●						
	●						
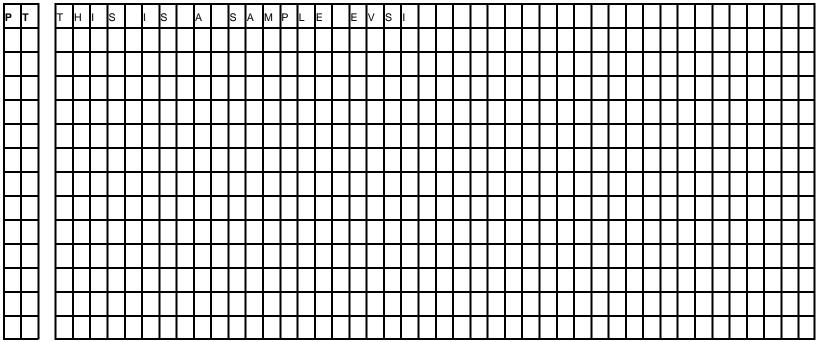
PG - Evaporative/Refueling Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	PG
Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Modify*: 'M' For *Replace*: 'R' For *Delete*: 'D'
Entry Field 3	Useful Life	000-999, N/A (In Thousands of Miles)
Entry Field 4	Emission Name	**See CMUG - Appendix D**
Entry Field 5	Emission Standard	000.0000 - 999.9999 *Note:* The system shall support the entry of emission standards by the user and may additionally provide default values if EPA has applicable standards. Business rule error if the value after update is blank or null.
Entry Field 6	Phase In Percentage	000-100, *blank* Assign value 0 as a default if the value after update is blank or null.
Entry Field 7	Multiplicative DF	0.000-9.999 *Note:* This field shall be stored in the database as entered by the user, however IOV CFEIS processes that use this field shall use the value 1 when the value entered is less than 1.
Entry Field 8	Additive DF	-9.999999 - 9.999999 *Note:* This field shall be stored in the database as entered by the user, however IOV CFEIS processes that use this field shall use the value 0 when the value entered is less than 0.

EPA

Entry Field 1: Input Record Type

Entry Field 2: Comments

P	T	Entry Field 2
		THIS IS A SAMPLE EVSI

THIS IS A SAMPLE EVSI

PT - Evaporative/Refueling Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	PT
Entry Field 2	Comments	Text *Note*: Comment text is appended to the end of any existing comment text for Evaporative Family Subsystem.

CFEIS Shift Schedule Entry Form (SAMPLE)

≈EPA

Entry Field 1:
Input Record Type

`S` `1`

Entry Field 2:
Process Code

☐

Entry Field 3:
Data Base Code

`A`

Entry Field 4:
Manufacturer Code

☐ ☐ `5` `2`

Entry Field 5:
Shift Schedule Id

☐ ☐ ☐ ☐

Entry Field 6:
Shift Schedule Description

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
☐ ☐ ☐ ☐ ☐ ☐ ☐

Entry Field 1:
Input Record Type

`S` `2`

Entry Field 2:
Data Set Originator Code

`0` `1`

Entry Field 1:
Input Record Type

`S` `3`

Entry Field 2:
Non-Cruise
Declutch Speed

`2` `0` `●` `0`

Entry Field 3:
Non-Cruise 1-2
Gear SS

`1` `5` `●` `0`

Entry Field 4:
Non-Cruise 2-3
Gear SS

`2` `5` `●` `0`

Entry Field 5:
Non-Cruise 3-4
Gear SS

`4` `0` `●` `0`

Entry Field 6:
Non-Cruise 4-5
Gear SS

`4` `5` `●` `0`

Entry Field 7:
Non-Cruise 5-6
Gear SS

`5` `0` `●` `0`

S1, S2 and S3 - Shift Schedule Entry Field Descriptions

Entry Field 1	Input Record Type	S1
Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Modify*: 'M' For *Replace*: 'R' For *Delete*: 'D' For *Change*: 'N' For *Report*: 'P' For *Summary Report*: 'Y'
Entry Field 3	Data Base Code	A - Manufacturers B - EPA VPCD (prev. CD) C - EPA TSD (prev. EOD) D - EPA MOD E - EPA FED (prev. FOSD) F - EPA ECTD G - EPA RDSD H - EPA AMD (prev. EPSD) *Note*: Default = "A"
Entry Field 4	Manufacturer Code	Valid MANUFACTURER CODE
Entry Field 5	Shift Schedule Id	Valid SHIFT SCHEDULE ID
Entry Field 6	Shift Schedule Description	Text

Entry Field 1	Input Record Type	S2
Entry Field 2	Data Set Originator Code	**See CMUG - Appendix D**

Entry Field 1	Input Record Type	S3

Entry Field 2	Non-Cruise Declutch Speed	000.0-200.0, *asterisk*
Entry Field 3	Non-Cruise 1-2 Gear SS	000.0-200.0, *asterisk*
Entry Field 4	Non-Cruise 2-3 Gear SS	000.0-200.0, *asterisk*
Entry Field 5	Non-Cruise 3-4 Gear SS	000.0-200.0, *asterisk*
Entry Field 6	Non-Cruise 4-5 Gear SS	000.0-200.0, *asterisk*
Entry Field 7	Non-Cruise 5-6 Gear SS	000.0-200.0, *asterisk*

CFEIS Shift Schedule Entry Form (SAMPLE)

⊕EPA

Entry Field 1:
Input Record Type

Entry Field 2:
Cruise Declutch
Speed

Entry Field 3:
Cruise 1-2
Gear SS

Entry Field 4:
Cruise 2-3 Gear
SS

Entry Field 5:
Cruise 3-4
Gear SS

Entry Field 6:
Cruise 4-5
Gear SS

Entry Field 7:
Cruise 5-6
Gear SS

| S | 4 |

| 1 | 5 | ● | 0 |

| 1 | 5 | ● | 0 |

| 2 | 5 | ● | 0 |

| 4 | 0 | ● | 0 |

| 4 | 5 | ● | 0 |

| 5 | 0 | ● | 0 |

Entry Field 1:
Input Record Type

Entry Field 2:
Drive Schedule
Name Code

Entry Field 1:
Input Record Type

Entry Field 2:
Model Year

Entry Field 3:
Deletion Code

| S | 7 |

| 0 | 0 | 2 |

| S | 8 |

1	9	9	9

| |
| |
| |
| |

S4, S7 and S8 - Shift Schedule Entry Field Descriptions

Entry Field 1	Input Record Type	S4
Entry Field 2	Cruise Declutch Speed	000.0-200.0
Entry Field 3	Cruise 1-2 Gear SS	000.0-200.0
Entry Field 4	Cruise 2-3 Gear SS	000.0-200.0
Entry Field 5	Cruise 3-4 Gear SS	000.0-200.0
Entry Field 6	Cruise 4-5 Gear SS	000.0-200.0
Entry Field 7	Cruise 5-6 Gear SS	000.0-200.0

Entry Field 1	Input Record Type	S8
Entry Field 2	Model Year	1970-2100 Note: Initial entry only.
Entry Field 3	Deletion Code	D *Note*: Entering a 'D' in this field requires the entry of one or more model year(s) which had previously been entered for this Shift Schedule.

Entry Field 1	Input Record Type	S7
Entry Field 2	Drive Schedule Name Code	002 - FTP (Cert) 003 - HWFE (Cert) 021 - LA4 (prep only) 022 - LA4 023 - 505 031 - HWFE (no warmup) 101 - SCC#1 102 - SCC#2 103 - BIH (Auto) 104 - BIH (Manual) 111 - 3BagHWFE 112 - 3Bag505 121 - LA4 (perturbed1.5) *Note*: "Prep" shift schedule data must be included when '002' is entered. "Warm-up" shift schedule data must be included when '003' is entered.

CFEIS Shift Schedule Entry Form (SAMPLE)

⬧EPA

Entry Field 1:
Input Record Type

Entry Field 2:
Comments

S	C	T	H	I	S		I	S		A		S	A	M	P	L	E		S	H	I	F	T		S	C	H	E	D	U	L	E													

♻EPA
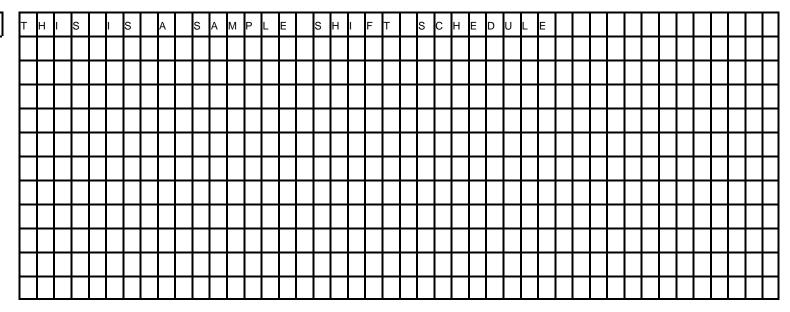
SC - Shift Schedule Entry Field Descriptions

Entry Field 1	Input Record Type	SC
Entry Field 2	Comments	Text *Note*: Up to ten occurrences of this SC record may be entered.

Entry Field 1: Input Record Type	Entry Field 2: Shift Point Number	Entry Field 3: Shift Time	Entry Field 4: Shift Speed	Entry Field 5: Shift Action Code	Entry Field 6: Shift Point Screen Text	Entry Field 9: Exception Point Code
S P	1	2 5 ● 3	1 5 ● 0	1 2		
	2	6 3 ● 0	2 5 ● 0	2 3		
	3	1 1 7 ● 5	2 5 ● 0	0 0		Y
	4	1 6 7 ● 5	1 5 ● 0	1 2		
	5	1 7 1 ● 5	2 5 ● 0	2 3		
	6	1 9 8 ● 6	4 0 ● 0	3 4		
	7	2 0 1 ● 9	4 5 ● 0	4 5		
	8	2 2 0 ● 0	5 0 ● 0	5 6		
	9	3 0 9 ● 0	4 0 ● 0	6 5		
	1 0	3 1 4 ● 0	4 5 ● 0	5 4		
	1 1	3 2 3 ● 0	2 0 ● 0	0 0		
	1 2	3 5 1 ● 3	1 5 ● 0	1 2		
	1 3	3 5 5 ● 9	2 5 ● 0	2 3		
	1 4	3 8 9 ● 9	2 0 ● 0	0 0		
	1 5	4 0 6 ● 8	2 5 ● 0	1 2		
	1 6	4 1 0 ● 0	2 5 ● 0	2 3		
	1 7	4 2 2 ● 5	1 5 ● 0	0 0		
	1 8	4 5 1 ● 5	1 5 ● 0	1 2		
	1 9	4 5 4 ● 6	2 5 ● 0	2 3		
	2 0	4 9 7 ● 9	2 5 ● 0	0 0		

(USE MORE THAN ONE FORM FOR MORE SHIFT POINTS.)

SP - Shift Schedule Entry Field Descriptions

Entry Field 1	Input Record Type	SP
Entry Field 2	Shift Point Number	0-160 *Note*: Modifying a shift point requires a matching SHIFT TIME for the Shift Schedule. The new number is system generated.[1]
Entry Field 3	Shift Time	0000.0-2500.0 *Note*: Modifying a shift point requires a matching SHIFT POINT NUMBER for the Shift Schedule. The new number is system generated.
Entry Field 4	Shift Speed	000.0-200.0
Entry Field 5	Shift Action Code	**See CMUG - Appendix D**
Entry Field 6	Shift Point Screen Text	Text *Note*: Enter only if SHIFT ACTION CODE is equal to '99'.
Entry Field 9	Exception Point Code	N or *blank* - Include this shift point speed in the VDA shift patten calculations. Y or X - Do not include this shift point speed in the VDA shift patten calculations.

CFEIS Vehicle Information Entry Form (SAMPLE)

EPA

Vehicle Configuration Number: _____

Entry Field 1:
Input Record Type

`V` `1`

Entry Field 2:
Process Code

` `

Entry Field 3:
Manufacturer Code

`0` `5` `2`

Entry Field 4:
Division Code

`0` `1`

Entry Field 5:
Car Line Code

`0` `0` `1`

Entry Field 6:
Vehicle Id

`V` `I` `D` `#` `1` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `

Entry Field 7:
Vehicle Configuration Number

` ` ` `

Entry Field 8:
Actual Vehicle Model

`C` `3` `2` `0` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `

Entry Field 9:
Drive Code

`1`

Entry Field 10:
Certification Model Year

`1` `9` `9` `9`

Entry Field 11:
Certification Model To Year

` ` ` ` ` ` ` `

Entry Field 12:
Source Code

`0` `1`

Entry Field 13:
Vehicle Purpose

`0` `1`

V1 - Vehicle Information Entry Field Descriptions

Entry Field 1	Input Record Type	V1
Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Modify*: 'M' For *Delete*: 'D' For *Change*: 'N' For *Report*: 'P' For *Carry Over*: 'C'
Entry Field 3	Manufacturer Code	Valid MANUFACTURER CODE
Entry Field 4	Division Code	Valid DIVISION CODE *Note*: Must be associated with a MANUFACTURER CODE.
Entry Field 5	Car Line Code	Valid CAR LINE CODE
Entry Field 6	Vehicle Id	Text
Entry Field 7	Vehicle Configuration Number	Must be a valid VEHICLE CONFIGURATION NUMBER for this MANUFACTURER CODE/VEHICLE ID combination. *Note*: MANUFACTURER CODE, VEHICLE ID, VEHICLE CONFIGURATION NUMBER, and CERTIFICATION MODEL YEAR combination must already exists in the data base.
Entry Field 8	Actual Vehicle Model	Text
Entry Field 9	Drive Code	1 - Rear Drive, Left-hand Steering 2 - Rear Drive. Right-hand Steering 3 - Front Drive, Left-hand Steering 4 - Front Drive, Right-hand Steering 5 - 4-Wheel Drive, Left-hand Steering 6 - 4-Wheel Drive, Right-hand Steering
Entry Field 10	Certification Model Year	1970-2100 *Note:* Certification Model Year serves as FROM year for Carry Over

Entry Field 11	Certification Model To Year	1970-2100 *Note:* For carry-over only.
Entry Field 12	Source Code	01 - Manufacturer *Note:* Default value is '01'.
Entry Field 13	Vehicle Purpose	01 - Cert Emission Data 02 - Cert Durability Data 03 - Cert Fuel Economy Data 05 - Cert Development 09 - Interim 1994 Cert 22 - ICI Cert *Note:* The Change Transaction is not allowed for '02' - Cert Durability Data Vehicles.

CFEIS Vehicle Information Entry Form (SAMPLE)

♲EPA

Vehicle Configuration Number: _____

Entry Field 1:
Input Record
Type

| V | 2 |

Entry Field 2:
Design Curb
Weight

| | | 4 | 5 | 2 | 8 |

Entry Field 3:
Design Equivalent
Test Weight

| | | 4 | 7 | 5 | 0 |

Entry Field 4:
MFR ETW
Units Code

| P |

Entry Field 5:
Design Gross
Vehicle Weight

| | | 5 | 5 | 8 | 0 |

Entry Field 6:
Displacement

| | | | | 3 | ● | 6 |

Entry Field 7:
Displacement Units

| L | | |

Entry Field 8:
Rated
Horsepower

| | 2 | 1 | 7 |

Entry Field 9:
Engine Type
Code

| 0 | 1 |

Entry Field 10:
Number of
Cylinders

| 0 | 4 |

Entry Field 11:
Number of Valves
per Cylinder

| 0 | 4 |

Entry Field 12:
Compression Ratio

| 1 | 0 | ● | 0 |

Entry Field 13:
Ignition Timing #1

| | | ● | |

Entry Field 14:
Ignition Timing #1
Before/After Code

| |

Entry Field 15:
Ignition Timing
RPM

| | | | | |

Entry Field 16:
Ignition Timing
RPM Tolerance

| | | | | |

Entry Field 17:
Running Change
Number Text

| | | | | | | | | | | |

V2 - Vehicle Information Entry Field Descriptions

Entry Field 1	Input Record Type	V2
Entry Field 2	Design Curb Weight	$001000 \leq WEIGHT \leq 010000$
Entry Field 3	Design Equivalent Test Weight	$001000 \leq WEIGHT \leq 010000$
Entry Field 4	MFR ETW Units Code	P - Pounds K - Kilograms
Entry Field 5	Design Gross Vehicle Weight	000000 - 999999 *Note:* Not required for LDV.
Entry Field 6	Displacement	$00000.0 \leq DISPL \leq 08193.5$ *Note:* If reported in Cubic Inches, $40 \leq DISPL \leq 500$. Convert to Cubic Centimeters.
Entry Field 7	Displacement Units	E - Cubic Inches or Inches M - Cubic Centimeters or Millimeters CID - Cubic Inches Displacement CC - Cubic Centimeters CMM - Cubic Millimeters L - Liters
Entry Field 8	Rated Horsepower	$0025 \leq RTD\ HP \leq 0450$
Entry Field 9	Engine Type Code	01 - Otto Spark 02 - Stratified Charge 03 - Diesel 04 - Gas Turbine 05 - Rankine 06 - Stirling 07 - Hybrid 99 - Other *Note:* Must be 01-03 for Cert vehicles, 01-99 for Non-cert vehicles.
Entry Field 10	Number Of Cylinders	$02 \leq CYLINDERS \leq 12$

Entry Field 11	Number of Valves per Cylinder	00 - 09
Entry Field 12	Compression Ratio	$006.0 \leq RATIO \leq 025.0$
Entry Field 13	Ignition Timing #1	00.0 - 99.0
Entry Field 14	Ignition Timing #1 Before/After Code	A - After B - Before *Note:* Required if IGNITION TIMING #1 has been entered.
Entry Field 15	Ignition Timing RPM	$00200 \leq ITR \leq 03200$ *Note:* Required if IGNITION TIMING #1 has been entered.
Entry Field 16	Ignition Timing RPM Tolerance	0 - 200 Required if IGNITION TIMING #1 has been entered. If the tolerance is asymmetrical around the specification, leave the field blank and indicate the tolerances in comments.
Entry Field 17	Running Change Number Text	Text

CFEIS Vehicle Information Entry Form (SAMPLE)

EPA

Vehicle Configuration Number: _____

Entry Field 1:
Input Record
Type

`V` `3`

Entry Field 2:
Ignition Timing
Degree Tolerance

Entry Field 3:
Ignition Timing
Gear Code

Entry Field 4:
Idle RPM

`5` `4` `0`

Entry Field 5:
Idle RPM
Tolerance

`5` `0`

Entry Field 6:
Idle Gear Code

Entry Field 7:
A/C Installed

`Y`

Entry Field 8:
Engine Code

`M` `1` `9` `-` `4` `2` `-` `1`

Engine Field 9:
Engine Family/Test Group Name

`X` `T` `M` `X` `V` `0` `3` `.` `6` `A` `B` `C`

Entry Field 10:
Engine System
Number

`0` `1`

Entry Field 11:
Emission Control
System - Exhaust

`1` `0`

Entry Field 12:
Emission Control
System - Exhaust

`2` `0`

Entry Field 13:
Emission Control
System - Exhaust

`9` `9`

Entry Field 14:
Emission Control
System - Exhaust

Entry Field 15:
Emission Control
System - Exhaust

Entry Field 16:
Emission Control
System - Evaporative

V3 - Vehicle Information Entry Field Descriptions

Entry Field 1	Input Record Type	V3
Entry Field 2	Ignition Timing Degree Tolerance	0 - 10 Enter only if IGNITION TIMING #1 is not blank. If the tolerance is asymmetrical around the specification, leave the field blank and indicate the tolerances in comments.
Entry Field 3	Ignition Timing Gear Code	N - Neutral D - Drive P - Park *Note:* Entered only if IGNITION TIMING #1 is not blank.
Entry Field 4	Idle RPM	$00200 \leq$ IDLE RPM ≤ 03200 *Note:* Value must be taken from tune-up specifications.
Entry Field 5	Idle RPM Tolerance	IDLE RPM TOL ≤ 0200 *Note:* Enter when IDLE RPM > 0.
Entry Field 6	Idle Gear Code	N - Neutral D - Drive P - Park E - Either Neutral or Drive *Note:* Enter when IDLE RPM > 0.
Entry Field 7	A/C Installed	Y - Yes N - No
Entry Field 8	Engine Code	Text *Note:* May be left blank on VI submissions describing Durability-data vehicles.
Entry Field 9	Engine Family/ Test Group Name	Valid ENGINE FAMILY/ TEST GROUP NAME

Entry Field 10	Engine System Number	Valid ENGINE SYSTEM NUMBER from ESI file. *Note:* DF Type must be identified in the engine family information. This field is required to process Engine Family and System information. The system shall assign a value of '01' as a default if Engine Family Name is correct and the value of Engine System Number is null, invalid on input, or incorrect. A null value shall be assigned if Engine Family Name is incorrect.
Entry Field 11	Emission Control System - Exhaust	**See CMUG - Appendix D**
Entry Field 12	Emission Control System - Exhaust	**See CMUG - Appendix D**
Entry Field 13	Emission Control System - Exhaust	**See CMUG - Appendix D**
Entry Field 14	Emission Control System - Exhaust	**See CMUG - Appendix D**
Entry Field 15	Emission Control System - Exhaust	**See CMUG - Appendix D**

Entry Field 16	Emission Control System - Evaporative	Evaporative:
		  101 - Crankcase
		  102 - Canister
		  103 - Tank
		  104 - None
		  105 - Canister and Charcoal Air Cleaner
		  199 - Other

CFEIS Vehicle Information Entry Form (SAMPLE)

⬆EPA

Vehicle Configuration Number: _____

Entry Field 1:
Input Record
Type

| V | 4 |

Entry Field 2:
Evaporative/Refueling Family Name

| X | T | M | X | E | 1 | 1 | 5 | 5 | A | B | C |

Entry Field 3:
Evaporative System
Number

| 0 | 1 |

Entry Field 4:
Design Full Tank
Drive Axle Weight

| | 2 | 0 | 5 | 1 |

Entry Field 5:
Design Empty Tank Drive
Axle Weight

| | 2 | 2 | 1 | 7 |

Entry Field 6:
Design 40% Drive
Axle Weight

| | 2 | 0 | 5 | 9 |

Entry Field 7:
MFR Weight Unit
Code

| P |

Entry Field 8:
Sales Area Code

| F | A |

Entry Field 9:
Sales Area Code

| C | A |

Entry Field 10:
Sales Area Code

| | |

Entry Field 11:
Sales Area Code

| | |

V4 - Vehicle Information Entry Field Descriptions

Entry Field 1	Input Record Type	V4
Entry Field 2	Evaporative/Refueling Family Name	Valid EVAPORATIVE/ REFUELING FAMILY NAME *Note*: Not Required for 'Diesel'.
Entry Field 3	Evaporative System Number	Valid EVAPORATIVE SYSTEM NUMBER from ESI file. *Note 1:* Not Required for 'Diesel'. *Note 2:* DF Type must be identified in the evaporative family information. If DF Type is missing, an error or warning condition shall be generated, however this shall not prevent processing of the VI data. This field is required to process Evaporative Family and System information. The system shall assign a value of '01' as a default if Evaporative Family Name is correct and the value of Evaporative System Number is null, invalid on input, or incorrect. A null value shall be assigned if Evaporative Family Name is incorrect.
Entry Field 4	Design Full Tank Drive Axle Weight	000250 ≤ WEIGHT ≤ 008000
Entry Field 5	Design Empty Tank Drive Axle Weight	000200 ≤ WEIGHT ≤ 008000
Entry Field 6	Design 40% Drive Axle Weight	000000 - 999999
Entry Field 7	MFR Weight Unit Code	P - Pounds K - Kilograms
Entry Field 8	Sales Area Code	**See CMUG - Appendix D**
Entry Field 9	Sales Area Code	**See CMUG - Appendix D**

Entry Field 10	Sales Area Code	**See CMUG - Appendix D**
Entry Field 11	Sales Area Code	**See CMUG - Appendix D**

CFEIS Vehicle Information Entry Form (SAMPLE)

⊕EPA

Vehicle Configuration Number: _____

Entry Field 1:
Input Record
Type

| V | 5 |

Entry Field 2:
Tire Manufacturer

| M | I | C | H | E | L | I | N | | |

Entry Field 3:
Tire Construction
Code

| 2 |

Entry Field 4:
Recommended
In-Use Front Tire
Pressure

| | 2 | 8 |

Entry Field 5:
Recommended
In-Use Rear Tire
Pressure

| | 2 | 8 |

Entry Field 6:
Tire Pressure
Units

| P | S | I | |

Entry Field 7:
Axle Ratio

| 3 | ● | 4 | 5 |

Entry Field 8:
N/V Ratio

| | 3 | 8 | ● | 1 |

Entry Field 9:
Tire and Rim Sizes

| 2 | 2 | 5 | / | 6 | 0 | R | 1 | 6 | H |

Entry Field 10:
Transmission
Configuration

| 2 | 2 |

Entry Field 11:
Multi-Mode
Position Code

| |

Entry Field 12:
Odometer Units
Code

| M |

Entry Field 13:
Odometer Correction
Sign

| - |

Entry Field 14:
Odometer Correction
Initial

| | | | | 1 | 9 | ● | 0 |

Entry Field 15:
Odometer Correction
Factor

| 0 | ● | 9 | 8 | 9 | 7 |

V5 - Vehicle Information Entry Field Descriptions

Entry Field 1	Input Record Type	V5
Entry Field 2	Tire Manufacturer	Text
Entry Field 3	Tire Construction Code	1 - Bias Belted 2 - Radial 3 - Bias
Entry Field 4	Recommended In-Use Front Tire Pressure	000 - 999
Entry Field 5	Recommended In-Use Rear Tire Pressure	000 - 999
Entry Field 6	Tire Pressure Units	PSI - Pounds per Square Inch
Entry Field 7	Axle Ratio	$2.00 \leq RATIO \leq 6.00$
Entry Field 8	N/V Ratio	$020.0 \leq RATIO \leq 095.0$
Entry Field 9	Tire and Rim Sizes	Text *Note:* Must be the tire and rim diameter imprinted on the sidewall.
Entry Field 10	Transmission Configuration	**See CMUG - Appendix D**
Entry Field 11	Multi-Mode Position Code	P - Power E - Economy M - Mid-range O - Other
Entry Field 12	Odometer Units Code	M - Miles K - Kilometers
Entry Field 13	Odometer Correction Sign	'+' - System Miles = (Test Odometer Reading * Correction Factor) + Initial System Miles '-' - System Miles = (Test Odometer Reading - Initial System Miles) * Correction Factor

Entry Field 14	Odometer Correction Initial	000000.0 - 999999.9
Entry Field 15	Odometer Correction Factor	0.0000 - 9.9999

CFEIS Vehicle Information Entry Form (SAMPLE)

EPA

Vehicle Configuration Number: _____

Entry Field 1:
Input Record Type

V	P

Entry Field 2:
Evaporative System
Information Process

Entry Field 3:
Evaporative Emission Code

| C | A | N | 1 | P | 1 | - | 2 | | | | | | | | |

Entry Field 4:
Canister Type
Code

E

Entry Field 5:
Bed Volume
Per Canister

| | 2 | 0 | 0 | 0 |

Entry Field 6:
Working Capacity
Per Canister

| | | | 3 | 0 |

Entry Field 7:
Total Number of
Canisters

	1

Entry Field 8:
Alternate Canister
Loading Rate For
The 3-Diurnal Test

			●
			●
			●

Entry Field 9:
Catalyst Preheating
Method Code

4

VP - Vehicle Information Entry Field Descriptions

Entry Field 1	Input Record Type	VP
Entry Field 2	Evaporative System Information Process Code	For *Add*: 'A' or *blank* - ' ' For *Modify*: 'M' For *Delete*: 'D'
Entry Field 3	Evaporative Emission Code	Text *Note:* Required if test vehicle is gasoline fueled. Leave blank if the vehicle is diesel-powered or if submission describes a gasoline-fueled durability-data vehicle. A value can be entered for each combination of CANISTER TYPE CODE, BED VOLUME PER CANISTER, and WORKING CAPACITY PER CANISTER.
Entry Field 4	Canister Type Code	E - Evaporative R - Refueling B - Both N - None *Note:* This field can have multiple values.
Entry Field 5	Bed Volume Per Canister	00000 - 99999 *Note:* Value reported must be in Cubic Centimeters. This field can have multiple values.
Entry Field 6	Working Capacity Per Canister	0000 - 9999 *Note:* Value reported must be in Grams. This field can have multiple values.
Entry Field 7	Total Number of Canisters	00-99 *Note:* A value can be entered for each combination of CANISTER TYPE CODE, BED VOLUME PER CANISTER, and WORKING CAPACITY PER CANISTER.

Entry Field 8	Alternate Canister Loading Rate For The 3-Diurnal Test	000.0 - 999.9 *Note:* Enter if loading rate is other than 15 grams butane per hour. Value reported must be in Grams. A value can be entered for each combination of CANISTER TYPE CODE, BED VOLUME PER CANISTER, and WORKING CAPACITY PER CANISTER.
Entry Field 9	Catalyst Preheating Method Code	0 - None 1 - Electric-metallic 2 - Electric Non-metallic 3 - Non-electric Metallic 4 - Non-electric Non-metallic *Note:* A value can be entered for each combination of CANISTER TYPE CODE, BED VOLUME PER CANISTER, and WORKING CAPACITY PER CANISTER.

CFEIS Vehicle Information Entry Form (SAMPLE)

♣EPA

Vehicle Configuration Number: _____

Entry Field:
Input Record
Type

V	F

Entry Field 2:
Fuel Systems
Information
Process Code

Entry Field 3:
Emission
Standards
Fuel Type Code

G		

Entry Field 4:
Fuel System MFR/Model

B	O	S	C	H	-	M	E	2	

Entry Field 5:
MFR Nominal
Main Fuel Tank
Capacity

		2	6	●	4
				●	
				●	

Entry Field 6:
MFR Nominal
Auxiliary Fuel
Tank Capacity

			●		
			●		
			●		

Entry Field 7:
MFR Fuel Tank
Capacity Units
Code

G	

VF - Vehicle Information Entry Field Descriptions

Entry Field 1	Input Record Type	VF
Entry Field 2	Fuel Systems Information Process Code	For *Add*: 'A' or *blank* - ' ' For *Modify*: 'M' For *Delete*: 'D'
Entry Field 3	Emission Standards Fuel Type Code	G - Gasoline ~~GM - Gasoline/Methanol~~ ~~GE - Gasoline/Ethanol~~ D - Diesel M - Methanol E - Ethanol C - Compressed Natural Gas (1994-1997) CD - CNG/Diesel L - Liquid Petroleum Gas (1994-1997) CNG - Compressed Natural Gas (1998 & later) LNG - Liquefied Natural Gas LPG - Liquid Petroleum Gas (1998 & later) N - Not Applicable *Note:* A minimum of one code is required for entry.
Entry Field 4	Fuel System MFR/Model	Text *Note:* A value can be entered for each emission standards fuel type.
Entry Field 5	MFR Nominal Main Fuel Tank Capacity	$0005.0 \le MNMTC \le 0099.0$ *Note:* Enter volume in the units specified in tank capacity units code. A value can be entered for each Emission Standards Fuel Type Code entered.
Entry Field 6	MFR Nominal Auxiliary Fuel Tank Capacity	$005.0 \le MNATC \le 050.0$ *Note:* Must be blank if vehicle has no auxiliary fuel tank. Enter volume in the units specified in MFR FUEL TANK CAPACITY UNITS CODE. A value can be entered for each Emission Standards Fuel Type Code entered.
Entry Field 7	MFR Fuel Tank Capacity Units Code	G - Gallons L - Liters ~~P - Pounds~~ ~~GM - Grams~~ ~~KG - Kilograms~~ *Note:* Required if MFR NOMINAL AUXILIARY TANK CAPACITY or MFR NOMINAL MAIN FUEL TANK CAPACITY is entered. A value can be entered for each Emission Standards Fuel Type Code entered.

Vehicle Configuration Number: _____

Entry Field 1:
Input Record
Type

V	T

Entry Field 2:
Test Information
Process Code

Entry Field 3:
Test Procedure
Code

	2
	3
3	1

Entry Field 4:
VI Fuel Type
Code

6
6
6

Entry Field 5:
Shift Schedule
Database Code

A
A
A

Entry Field 6:
Shift Schedule
Id

F	T	A
H	W	A
F	T	A

Entry Field 7:
Shift Indicator
Light

1
1
1

Entry Field 8:
Running Loss Fuel
Temp Profile DB Code

Entry Field 9:
Running Loss Fuel
Temp Profile Id

Entry Field 10:
Side Fan
Cooling Code

N
N
N

Entry Field 11:
ACHP Code

Y
Y
Y

Entry Field 12:
Equivalent Test
Weight Coastdown
Vehicle

4	7	5	0
4	7	5	0
4	7	5	0

Entry Field 13:
MFR Coastdown
Time

2	3	●	3	2
2	3	●	3	2
2	3	●	3	2

Entry Field 14:
Actual Dyno
H.P.

	7	●	9
	7	●	9
	7	●	9

Entry Field 15:
Dynamometer
Equation Type
Code

Entry Field 16:
Electric Dynamometer
Target Coefficient A

Entry Field 17:
Electric Dynamometer
Target Coefficient B

Entry Field 18:
Electric Dynamometer
Target Coefficient C

Entry Field 19:
Electric Dynamometer
Set Coefficient A

Entry Field 20:
Electric Dynamometer
Set Coefficient B

Entry Field 21:
Electric Dynamometer
Set Coefficient C

VT - Vehicle Information Entry Field Descriptions

Entry Field 1	Input Record Type	VT
Entry Field 2	Test Information Process Code	For *Add*: 'A' or *blank* - ' ' For *Modify*: 'M' For *Delete*: 'D'
Entry Field 3	Test Procedure Code	02, 03, 09, 10, 11, 13-17, 21-47, 71-79 *Note:* The codes listed above are defined in the *Test Processing Systems - Disposition Assignment* document. Multiple combinations of TEST PROCEDURE CODE and VI FUEL TYPE code can be entered.
Entry Field 4	VI Fuel Type Code	**See CMUG - Appendix D**
Entry Field 5	Shift Schedule Database Code	**See CMUG - Appendix D**
Entry Field 6	Shift Schedule Id	**See CMUG - Appendix D**
Entry Field 7	Shift Indicator Light	**See CMUG - Appendix D**
Entry Field 8	Running Loss Fuel Temp Profile DB Code	**See CMUG - Appendix D**
Entry Field 9	Running Loss Fuel Temp Profile Id	**See CMUG - Appendix D**
Entry Field 10	Side Fan Cooling Code	**See CMUG - Appendix D**
Entry Field 11	ACHP Code	**See CMUG - Appendix D**
Entry Field 12	Equivalent Test Weight Coastdown Vehicle	**See CMUG - Appendix D**
Entry Field 13	MFR Coastdown Time	**See CMUG - Appendix D**
Entry Field 14	Actual Dyno H.P.	**See CMUG - Appendix D**
Entry Field 15	Dynamometer Equation Type Code	**See CMUG - Appendix D**

Entry Field 16	Electric Dynamometer Target Coefficient A	**See CMUG - Appendix D**
Entry Field 17	Electric Dynamometer Target Coefficient B	**See CMUG - Appendix D**
Entry Field 18	Electric Dynamometer Target Coefficient C	**See CMUG - Appendix D**
Entry Field 19	Electric Dynamometer Set Coefficient A	**See CMUG - Appendix D**
Entry Field 20	Electric Dynamometer Set Coefficient B	**See CMUG - Appendix D**
Entry Field 21	Electric Dynamometer Set Coefficient C	**See CMUG - Appendix D**
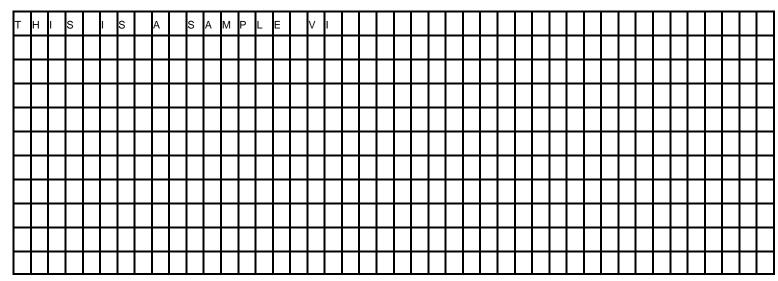
CFEIS Vehicle Information Entry Form (SAMPLE)

EPA

Vehicle Configuration Number: _____

Entry Field 1:
Input
Record
Type

Entry Field 2:
Comments

| V | C | T | H | I | S | | I | S | | A | | S | A | M | P | L | E | | V | I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

VC - Vehicle Information Entry Field Descriptions

Entry Field 1	Input Record Type	VC
Entry Field 2	Comments	Text *Note:* Multiple comment input records permitted. ' Replace' deletes old comments and adds new comments, while 'Modify' adds additional input comments to previously stored comments if any.

CFEIS Manufacturer Test Data System Entry Form (SAMPLE)

❀EPA

Test Number: _____

Entry Field 1:
Input Record
Type

T	1

Entry Field 2:
Process Code

Entry Field 3:
Manufacturer Code

0	5	2

Entry Field 4:
Test Number

Entry Field 5:
Model Year

1	9	9	9

Entry Field 6:
Vehicle Identification

V	I	D	#	1											

Entry Field 7:
Vehicle
Configuration
Number

0

Entry Field 8:
Test Purpose

1

Entry Field 9:
Test Procedure

2

Entry Field 10:
High Altitude

N

Entry Field 11:
Test Date

0	7	2	6	1	9	9	9

Entry Field 12:
Technical Disposition
Code

1

Entry Field 13:
Certification Disposition
Code

1

Entry Field 14:
Fuel Economy
Disposition Code

1

Entry Field 15:
Calculate
Deterioration
Factors

N

Entry Field 16:
Retest Code

N

T1 - Manufacturer Test Data System Entry Field Descriptions

Entry Field 1	Input Record Type	T1
Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Modify*: 'M' For *Replace*: 'R' For *Delete*: 'D' For *Report*: 'P' For *Carry Over*: 'C' For *Carry Across*: 'X' For *Reprocess*: 'S'
Entry Field 3	Manufacturer Code	Valid MANUFACTURER CODE
Entry Field 4	Test Number	0000000 - 9999999 Valid test number format. *Note:* EPA shall supply a valid EPA test number in the Add Transaction.
Entry Field 5	Model Year	1970-2100
Entry Field 6	Vehicle Identification	Valid VEHICLE ID
Entry Field 7	Vehicle Configuration Number	00-99
Entry Field 8	Test Purpose	**See CMUG - Appendix D**
Entry Field 9	Test Procedure	**See CMUG - Appendix D**
Entry Field 10	High Altitude	Y, N Default is 'N'
Entry Field 11	Test Date	Valid calendar date. (mmddyyyy)
Entry Field 12	Technical Disposition Code	1 - Valid 2 - Void 3 - Minor Void Blank - None * - Clears existing field

Entry Field 13	Certification Disposition Code	01 - Pass 02 - Fuel Economy Only 03 - Fail 04 - Void 05 - DF not available 06 - Evaporative results only 07 - After Shipment 08 - Zero mile test 09 - Highway NOx fail blank - No disposition * - Clear Existing field
Entry Field 14	Fuel Economy Disposition Code	01 - Used for Fuel Economy 02 - Not used for Fuel Economy 03 - "Reasonable," but not used for fuel economy 04 - Not reviewed, not used for fuel economy 07 - Awaiting confirmatory testing blank - No disposition * - Clear Existing field
Entry Field 15	Calculate Deterioration Factors	Y, N *Note:* Applies only to durability tests. Default to 'N'
Entry Field 16	Retest Code	Y, N Default to 'N'

CFEIS Manufacturer Test Data System Entry Form (SAMPLE)

⬥EPA

Test Number: _____

Entry Field 1:
Input Record
Type

| T | 2 |

Entry Field 2:
Test Lab Site Code

| | 1 |

Entry Field 3:
Test Analysis Site

| A | 0 | 0 | 3 |

Entry Field 4:
Dyno Site

| 0 | 0 | 0 | 6 |

Entry Field 5:
Evaporative Enclosure
Site

| 0 | 0 | 0 | 3 |

Entry Field 6:
Odometer Reading

| | | 3 | 9 | 3 | 5 | ● | 0 |

Entry Field 7:
Units (Odometer)

| M |

Entry Field 8:
Reason for
Confirmation

| | |

Entry Field 9:
Fuel Batch Id

| 9 | 8 | A | - | 0 | 1 |

Entry Field 10:
Fuel Calibration
Number

| | | | 2 |

Entry Field 11:
VI Fuel Type

| | 6 |

T2 - Manufacturer Test Data System Entry Field Descriptions

Entry Field 1	Input Record Type	T2
Entry Field 2	Test Lab Site Code	01-99
Entry Field 3	Test Analysis Site	Text *Note:* Evaporative Tests - No Entry
Entry Field 4	Dyno Site	Text Note: Evaporative Tests - No Entry
Entry Field 5	Evaporative Enclosure Site	Text
Entry Field 6	Odometer Reading	000000.0-999999.9
Entry Field 7	Units (Odometer)	M - Miles K - Kilometers
Entry Field 8	Reason for Confirmation	01 - Random audit 02 - Failure at manufacturer 03 - Cert level equals standards 04 - FE >= leader 05 - FE up by 1 or more 06 - New vehicle, no data 07 - FE correlation offset 08 - Defeat device evaluation 09 - Replacement of failed vehicle 10 - Potential gas guzzler 11 - Potential I/M concerns 99 - Other reason *Note:* This data element is applicable to EPA performed tests and should only be submitted with EPA test data.
Entry Field 9	Fuel Batch Id	Text *Note*: Not Required where VI Fuel Type is Diesel.
Entry Field 10	Fuel Calibration Number	0001-9999 *Note*: Not Required where VI Fuel Type is Diesel.

Entry Field 11	VI Fuel Type	06 - Unleaded (at EPA 96 RON) 09 - Diesel (at EPA #2 Diesel) 17 - Leaded (at EPA Ind 15) 22 - Special Unleaded 91 RON 23 - Carb Phase II Gasoline (CERT) 24 - Cold CO Regular (Cert) 25 - Cold CO Premium (Cert) ~~30 - Methanol (Cert Other)~~ 31 - Methanol (Cert M10) ~~32 - Methanol (Cert M50)~~ 33 - Methanol (Cert M85) ~~34 - Methanol (Cert M100)~~ 37 - E10 (10% Ethanol 90% EPA Unleaded Gasoline) 38 - E85 (85% Ethanol 15% EPA Unleaded Gasoline) 39 - Ethanol (Reserved for CERT - not IOV CFEIS) 40 - Hydrogen (Reserved for CERT - not CFEIS) 41 - CNG (CERT) 42 - LPG (reserved for CERT) (Not CFEIS) 43 - E10 (10% Ethanol 90% CAL Phase II Gasoline) 44 - E85 (85% Ethanol 15% CAL Phase II Gasoline)

CFEIS Manufacturer Test Data System Entry Form (SAMPLE)

EPA

Test Number: _____

Entry Field 1:
Input Record Type

| T | 3 |

Entry Field 2:
Average Code

| |

Entry Field 3:
Ambient Temperature

| 7 | 6 | ● | 6 |

Entry Field 4:
Ambient Temperature Units

| F |

Entry Field 5:
Barometric Pressure Valve

| 2 | 9 | ● | 0 | 6 |

Entry Field 6:
Barometric Pressure Units

| I | N | H | G |

Entry Field 7:
NOxKH

| 0 | ● | 8 | 8 | 3 | 2 |

Entry Field 8:
Test Group Code

| | | | | | | | |

Entry Field 9:
Quick Check

| | | ● | |

Entry Field 10:
Wait Time

| | |

Entry Field 11:
Warm Up

| | |

Engine Field 12:
Restarts

| |

Entry Field 13:
Precondition Type

| |

Entry Field 1:
Input Record Type

| T | 4 |

Entry Field 2:
Fuel Batch Effective Date

| | | | | | | | |

Entry Field 3:
Fuel Batch Ineffective Date

| | | | | | | | |

Entry Field 4:
Fuel Batch Calibration Date

| | | | | | | | |

Entry Field 5:
Carbon Weight Fraction NMHC

| ● | | | |

Entry Field 6:
Carbon Weight Fraction HC

| ● | | | |

Entry Field 7:
Exhaust Carbon Weight Fraction

| ● | | | |

Entry Field 8:
Fuel Methanol Volume Fraction

| ● | | | |

Entry Field 9:
Fuel Density

| | ● | | |

Entry Field 10:
Fuel Specific Gravity

| 0 | ● | 7 | 4 | 3 |

Entry Field 11:
Fuel Net Heating Value

| 1 | 8 | 5 | 5 | 2 | 2 |

Entry Field 12:
Fuel Blend Carbon Weight Fraction

| 0 | ● | 8 | 6 | 3 |

Entry Field 13:
Weight Fraction CO_2

| ● | | | |

T3 and T4 - Manufacturer Test Data System Entry Field Descriptions

Entry Field 1	Input Record Type	T3
Entry Field 2	Average Code	1-9, A-Z *Note:* Applies only to Durability Tests.
Entry Field 3	Ambient Temperature	**See CMUG - Appendix D**
Entry Field 4	Ambient Temperature Units	**See CMUG - Appendix D**
Entry Field 5	Barometric Pressure Value	**See CMUG - Appendix D**
Entry Field 6	Barometric Pressure Units	**See CMUG - Appendix D**
Entry Field 7	NOx KH	**See CMUG - Appendix D**
Entry Field 8	Test Group Code	Text *Note:* No entry needed for Cold CO, Light Truck Idle CO or Short Tests
Entry Field 9	Quick Check	00.00-99.99 *Note:* Enter Coastdown Time (seconds) on Test Procedure 03 (Hwy.).
Entry Field 10	Wait Time	01-99 *Note:* Short Test only
Entry Field 11	Warm Up	01-99 *Note:* Short Test only
Entry Field 12	Restarts	0-6 *Note:* Short Test only
Entry Field 13	Precondition Type	U - Unloaded L - Loaded *Note:* Only needed for Short Test

Entry Field 1	Input Record Type	T4
Entry Field 2	Fuel Batch Effective Date	Valid calendar date. (MMDDYYYY) *Note:* Not required for Diesel.
Entry Field 3	Fuel Batch Ineffective Date	Valid calendar date. (MMDDYYYY) *Note:* Not required for Diesel.
Entry Field 4	Fuel Batch Calibration Date	Valid calendar date. (MMDDYYYY) *Note:* Not required for Diesel.
Entry Field 5	Carbon Weight Fraction NMHC	0.800-0.900 Natural gas - CWF_{NMHC}
Entry Field 6	Carbon Weight Fraction HC	0.800-0.900 Natural gas - $CWF_{HC/NG}$
Entry Field 7	Exhaust Carbon Weight Fraction	**See CMUG - Appendix D**

Entry Field 8	Fuel Methanol Volume Fraction	0.000-1.000 (Methanol)
		    Methanol
		0.000-1.000 (Methanol blend)
		    Methanol blend

Entry Field 9	Fuel Density	**See CMUG - Appendix D**
Entry Field 10	Fuel Specific Gravity	**See CMUG - Appendix D**
Entry Field 11	Fuel Net Heating Value	**See CMUG - Appendix D**
Entry Field 12	Fuel Blend Carbon Weight Fraction	**See CMUG - Appendix D**
Entry Field 13	Weight Fraction CO2	**See CMUG - Appendix D**

Test Number: _____

Entry Field 1:
Input Record
Type

Entry Field 2:
Unrounded Emission Result Name

Entry Field 3:
Unrounded Test Result

T	R

Entry Field 2:

H	C	-	T	O	T	A	L									
C	O	2														
H	C	-	N	M												
N	O	X														
C	O															
M	F	R		F	E											

Entry Field 3:

			0	●	0	7	1	3	0	1
	4	5	4	●	6	6				
			0	●	0	6	3	4	2	9
			0	●	0	4	7	6	7	2
			0	●	5	9	3	9	7	
		1	9	●	4					
				●						
				●						
				●						
				●						
				●						
				●						
				●						
				●						
				●						
				●						
				●						
				●						

TR Manufacturer Test Data System Entry Field Descriptions

Entry Field 1	Input Record Type	TR
Entry Field 2	Unrounded Emission Result Name	**See CMUG - Appendix D**
Entry Field 3	Unrounded Test Result	0000.0000000-9999.9999999

CFEIS Manufacturer Test Data System Entry Form (SAMPLE)

EPA

Test Number: _____
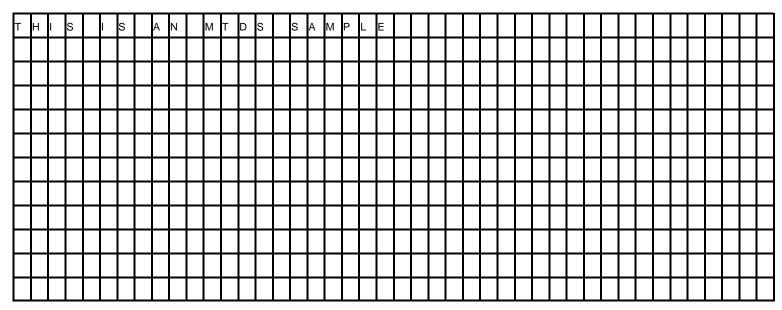
Entry Field 1:
Input Record Type

Entry Field 2:
Comments

T	C	T	H	I	S		I	S		A	N		M	T	D	S		S	A	M	P	L	E																						

TC - Manufacturer Test Data System Entry Field Descriptions

Entry Field 1	Input Record Type	TC
Entry Field 2	Comments	Text *Note:* Multiple comment input records permitted. 'Replace' deletes old comments and adds new comments, while 'Modify' adds additional input comments to previously stored comments, if any. Up to 12 comment input records permitted.

CFEIS Summary Sheet Entry Form (SAMPLE)

♻EPA

Entry Field 1:
Input Record Type

| X | 1 |

Entry Field 2:
Process Code

| |

Entry Field 3:
Manufacturer Code

| | | 5 | 2 |

Entry Field 4:
Engine Family/Test Group Name

| X | T | M | X | V | 0 | 3 | . | 2 | A | B | C |

Entry Field 5:
Engine System Number

| 0 | 1 |

Entry Field 6:
Summary Sheet Index Number

| | | | | | | | | |

Entry Field 7:
Summary Sheet Version Number

| | |

Entry Field 8:
Evaporative Family Name

| X | T | M | X | E | 1 | 1 | 5 | 5 | A | B | C |

Entry Field 9:
Evaporative System Number

| 0 | 1 |

Entry Field 10:
Vehicle Type Indicator Code

| L | D | V |

Entry Field 1:
Input Record Type

| X | 2 |

Entry Field 2:
Manufacturer Code

		5	2
		5	2

Entry Field 3:
Division Code

0	1
0	1

Entry Field 4:
Car Line Code

0	0	1
0	0	1

Entry Field 5:
Sales Area Code

F	A
C	A

Entry Field 6:
Transmission Type

2	5
2	5

Entry Field 7:
Drive System Code

| R |
| R |
| |
| |
| |

Entry Field 8:
Transmission Overdrive Code

| 2 |
| 2 |
| |
| |
| |

Entry Field 9:
Shift Indicator Light Code

| N |
| N |
| |
| |
| |

Entry Field 10:
Number of Transmission Modes Code

| 1 |
| 1 |
| |
| |
| |

Entry Field 11:
Variable Lock-up Point Code

| 1 |
| 1 |
| |
| |
| |

Entry Field 12:
Declutching/Freewheeling

| N |
| N |
| |
| |
| |

X1 and X2 - Summary Sheet Entry Field Descriptions

Entry Field 1	Input Record Type	X1
Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Replace*: 'R' For *Delete*: 'D' For *Summary Report*:'Y' For *Reprocess*: 'S'
Entry Field 3	Manufacturer Code	Valid MANUFACTURER CODE
Entry Field 4	Engine Family/ Test Group Name	Valid ENGINE FAMILY/ TEST GROUP NAME
Entry Field 5	Engine System Number	01-99 *Note:* Default is '01'.
Entry Field 6	Summary Sheet Index Number	Valid SUMMARY SHEET INDEX Number
Entry Field 7	Summary Sheet Version Number	00-99 *Note:* Default is '00'.
Entry Field 8	Evaporative/ Refueling Family Name	Valid EVAPORATIVE/ REFUELING FAMILY NAME
Entry Field 9	Evaporative System Number	01-99 *Note:* Defaults to '01' if Evaporative Family Name has been entered.
Entry Field 10	Vehicle Type Indicator Code	LDV - Light Duty Vehicle LDT - Light Duty Truck LVT - LDV/LDT1

Entry Field 4	Car Line Code	Valid CAR LINE CODE
Entry Field 5	Sales Area Code	**See CMUG - Appendix D**
Entry Field 6	Transmission Type	**See CMUG - Appendix D**
Entry Field 7	Drive System Code	R - Rear-wheel Drive F - Front-wheel Drive 4 - 4-wheel Drive
Entry Field 8	Transmission Overdrive Code	1 - No gear ratio < 1 2 - Top gear ratio < 1 *Note*: default is '2'.
Entry Field 9	Shift Indicator Light Code	Y, N, *blank* Note: Default is 'N'.
Entry Field 10	Number of Transmission Modes Code	V, C, 1-9 **See Note in CMUG - Appendix D**
Entry Field 11	Variable Lockup Point Code	V - Continuously Variable C - Computer Controlled Lock-up 1-9 - Number of Discrete Lock-up RPM Ranges N/*blank* - No Variable Lock-up Point (Non lock-up transmission) *Note*: Default is 'N'.
Entry Field 12	Declutching / Freewheeling	Y - Yes L - Yes, but with lock-out features N/*blank* - No *Note:* Default is 'N'.

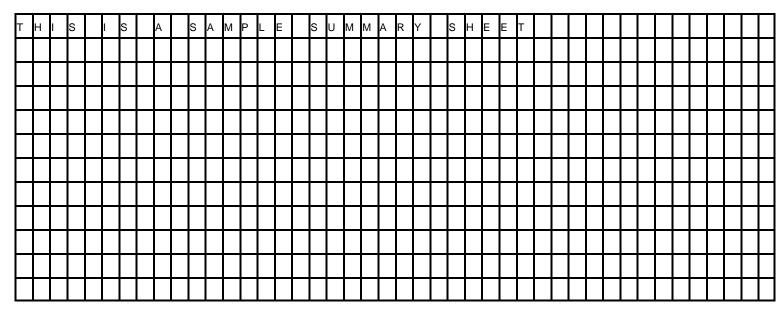| Entry Field 1	Input Record Type	X2
Entry Field 2	Manufacturer Code	Valid MANUFACTURER CODE *Note*: Default is MANUFACTURER CODE supplied on X1 input record.
Entry Field 3	Division Code	Valid DIVISION CODE *Note*: Must be associated with a MANUFACTURER CODE.

CFEIS Summary Sheet Entry Form (SAMPLE)

♻EPA

Entry Field 1:
Input Record Type

Entry Field 2:
Comments

| X | C | T | H | I | S | | I | S | | A | | S | A | M | P | L | E | | S | U | M | M | A | R | Y | | S | H | E | E | T | | | | | | | | | | | | | | | | | |

XC - Summary Sheet Entry Field Descriptions

Entry Field 1	Input Record Type	XC
Entry Field 2	Comments	Text *Note:* Up to 12 occurrences of this XC record may be entered.

CFEIS Summary Sheet Entry Form (SAMPLE)

⊕EPA

Entry Field 1:
Test Number

Entry Field 2:
Test Number

Entry Field 3:
Vehicle Configuration
Number

X	T

	7	7	7	7	7	7
9	9	6	9	8	7	6

	0
	1

XT - Summary Sheet Entry Field Descriptions

Entry Field 1	Input Record Type	XT
Entry Field 2	Test Number	Valid TEST NUMBER
Entry Field 3	Vehicle Configuration Number	Vehicle (VI) Configuration Number the test is entered against

Entry Field 1: Input Record Type

Entry Field 2: Process Code

Entry Field 3: Manufacturer Code

Entry Field 4: Index Number

Entry Field 5: Model Year

Entry Field 6: Cubic Inch Displacement

Entry Field 7: Number of Cylinders

Entry Field 8: Combustion Cycle

| G | 1 | | | 0 | 5 | 2 | 0 | 0 | 1 | 1 | 9 | 9 | 9 | 1 | 9 | 5 | | 6 | G |

Entry Field 9: Fuel Injection

Entry Field 10: Number of Venturi

Entry Field 11: Catalyst

Entry Field 12: Feedback Fuel System

Entry Field 13: Variable Displacement

Entry Field 14: Turbocharged

Entry Field 15: Supercharged

Entry Field 16: Number of Valves per Cylinder

| | 0 | 6 | Y | Y | N | N | N | 0 | 4 |

Entry Field 17: Police Vehicle

Entry Field 18: Engine Block Descriptors

Entry Field 19: FI Description

Entry Field 20: Unique Label

Entry Field 21: Recalculation

Entry Field 22: Relabel Option

Entry Field 23: Release Date

| N | I | 6 | | | | | | | | | | N | N | N | 1 | 2 | 3 | 1 | 1 | 9 | 9 | 9 |

Entry Field 24: New Label Indicator

| N |

G1 - General Label Entry Field Descriptions

Entry Field 1	Input Record Type	G1
Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Replace*: 'R' For *Delete*: 'D' For *Reprocess*:'S'
Entry Field 3	Manufacturer Code	Valid MANUFACTURER CODE *Note:* Concatenation with INDEX NUMBER must represent a unique BASIC ENGINE INDEX within a model year in the IOV CFEIS data base.
Entry Field 4	Index Number	001-999
Entry Field 5	Model Year	1970-2100
Entry Field 6	Cubic Inch Displacement	000-999
Entry Field 7	Number of Cylinders	00-99
Entry Field 8	Combustion Cycle	G - Otto Cycle (SI) Piston R - Otto Cycle (SI) Rotary D - Diesel Cycle (CI) 2 - Two Stroke Cycle T - Turbine H - Hybrid Electric E - Electric A - Other
Entry Field 9	Fuel Injection	N - No S - Single M - Multi-point (Default for diesels)
Entry Field 10	Number of Venturi	00-99 *Note:* Default is '00'.
Entry Field 11	Catalyst	Y - Yes *Note:* Default is 'Y'. N - No
Entry Field 12	Feedback Fuel System	Y - Yes *Note:* Default is 'Y'. N - No
Entry Field 13	Variable Displacement	Y - Yes *Note:* Default is 'N'. N - No
Entry Field 14	Turbocharged	Y - Yes *Note:* Default is 'N'. N - No C - Yes, with charge air cooling

Entry Field 15	Supercharged	Y - Yes *Note:* Default is 'N'. N - No C - Yes, with charge air cooling
Entry Field 16	Number of Valves per Cylinder	00-09
Entry Field 17	Police Vehicle	Y - Yes *Note:* Default is 'N'. N - No
Entry Field 18	Engine Block Descriptors	Text *Note:* Default is 'Blank'.
Entry Field 19	FI Description	Y - Yes *Note:* Default is 'N'. N - No
Entry Field 20	Unique Label	Y - Yes *Note:* Default is 'N'. N - No
Entry Field 21	Recalculation	Y - Yes *Note:* Default is 'N'. N - No
Entry Field 22	Relabel Option (Relabel if value has increased?)	Y - Yes *Note:* Default is 'N'. N - No
Entry Field 23	Release Date	Valid calendar date. (mmddyyyy) *Note:* Default is two weeks from original submission date.
Entry Field 24	New Label Indicator (does this basic engine include new label?)	Y - Yes N - No

Entry Field 1: Input Record Type	Entry Field 2: Transmission Class Link	Entry Field 3: Transmission Type	Entry Field 4: Drive System	Entry Field 5: Transmission Overdrive	Entry Field 6: Shift Indicator Light	Entry Field 7: Engine Management System	Entry Field 8: Number of Transmission Modes	Entry Field 9: Variable Lockup Point	Entry Field 10: Declutching / Freewheeling
G 2	0 1	L 5	R	2	N	Y	1	1	N

GL - 3

G2 - General Label Entry Field Descriptions

Entry Field 1	Input Record Type	G2
Entry Field 2	Transmission Class Link	01-99 Linkage field to 'GM' and 'GF' input records.
Entry Field 3	Transmission Type	C4 - Creeper/Manual 4-speed M3 - Manual 3-speed B3 - Both C4 & M3 C5 - Creeper/Manual 5-speed M4 - No Creeper/Manual 4-speed B4 - Both C5 & M4 M5 - Manual 5-speed M6 - Manual 6-speed A3 - No Lockup/Automatic/3-speed L3 - Lock-up/Automatic/3-speed A4 - No Lockup/Automatic/4-speed L4 - Lock-up/Automatic/4-speed A5 - No Lockup/Automatic/5-speed L5 - Lock-up/Automatic/5-speed S2 - Semi-Automatic 2-speed S3 - Semi-Automatic 3-speed S4 - Semi-Automatic 4-speed S5 - Semi-Automatic 5-speed AV - Automatic variable Gear Ratios
Entry Field 4	Drive System	4 - 4-wheel Drive F - 2-wheel Drive, front R - 2-wheel Drive, rear
Entry Field 5	Transmission Overdrive	1 - No gear ratio < 1 2 - Top gear ratio < 1 *Note:* Default is '2'.
Entry Field 6	Shift Indicator Light	Y - Yes *Note:* Default is 'N'. N - No
Entry Field 7	Engine Management System	Y - Yes *Note:* Default is 'N'. N - No L - Yes, but with lock-out features

Entry Field 8	Number of Transmission Modes	V - Continuously variable, user selectable C - Computer controlled multiple gear ratios 1-9 - Number of discrete user selectable transmission modes N - Not Applicable *Note:* Default is 'N'.
Entry Field 9	Variable Lockup Point	*N, blank* - No variable lock-up point V - Continuously variable C - Computer controlled lock-up 1-9 - Number of discrete lock-up rpm ranges
Entry Field 10	Declutching / Freewheeling	Y - Yes *Note:* Default is 'N'. N - No L - Yes, but with lock-out features

Entry Field 1:
Input Record Type

| G | M |

Entry Field 2:
Manufacturer
Code

		5	2

Entry Field 3:
Division Code

0	1

Entry Field 4:
Car Line Code

0	0	1

Entry Field 5:
Transmission
Class Link

0	1

Entry Fiel d 6:
Guzzler Exempt

| N |
| |
| |
| |
| |

Entry Field 7:
Displacement
In Liters

	3	●	2

~~**Entry Field 8:**~~
Reserved
(This Field Not Required)

| |
| |
| |
| |
| |

Entry Field 9:
Unrounded Unadjusted City FE

	2	1	●	1	4	1
			●			
			●			
			●			
			●			

Entry Field 10:
Unrounded Unadjusted Hwy FE

	3	4	●	8	4	1	1
			●				
			●				
			●				
			●				

Entry Field 11:
Unrounded Unadjusted Comb FE

	2	9	●	9	1	1	1
			●				
			●				
			●				
			●				

Entry Field 12:
Rounded Adjusted
City FE

	2	1

Entry Field 13:
Rounded Adjusted
Hwy FE

	3	5

Entry Field 14:
Rounded Adjusted
Comb FE

	3	0

Entry Field 15:
Annual Fuel Cost

	1	2	0

Entry Field 16:
Self Approval Date
(mmddyyyy)

1	2	3	1	1	9	9	9

Entry Field 17:
Fuel Usage

| R |
| |
| |
| |
| |

Entry Field 18:
Sales Data
Suppression Code

| 2 |
| |
| |
| |
| |

GM - General Label Entry Field Descriptions

Entry Field 1	Input Record Type	GM
Entry Field 2	Manufacturer Code	Valid MANUFACTURER CODE
Entry Field 3	Division Code	Valid DIVISION CODE *Note*: Must be associated with the above MANUFACTURER CODE.
Entry Field 4	Car Line Code	Valid CAR LINE CODE
Entry Field 5	Transmission Class Link	01-99 Linkage field to 'G2' and 'GF' input records.
Entry Field 6	Guzzler Exempt	*blank* - Not exempt N - Not exempt 1 - Unloaded GVWR > 6000 lbs 2 - Emergency Vehicle 3 - IRS Alternative Rate Schedule 4 - Small volume manufacturer who lengthens an existing vehicle. *Note:* Default is 'N'.
Entry Field 7	Displacement In Liters	0.1 - 20.0 *Note:* Decimal point and one digit to the right of it are required. A number with two digits to the right of decimal point will be rejected.
Entry Field 8	Reserved	This input field has been deleted and should not be entered.
Entry Field 9	Unrounded Unadjusted City FE	000.0000-999.9999
Entry Field 10	Unrounded Unadjusted Hwy FE	000.0000-999.9999
Entry Field 11	Unrounded Unadjusted Comb FE	000.0000-999.9999
Entry Field 12	Rounded Adjusted City FE	000-999
Entry Field 13	Rounded Adjusted Hwy FE	000-999

Entry Field 14	Rounded Adjusted Comb FE	000-999
Entry Field 15	Annual Fuel Cost	0000-9999 *Note*: Entered value will be overwritten by a derived fuel cost based on the rounded adjusted combined fuel economy and 15,000 miles of driving per year.
Entry Field 16	Self Approval Date	Valid calendar date. (mmddyyyy)
Entry Field 17	Fuel Usage	R - Regular Unleaded P - Premium Unleaded D - Diesel C - Compressed Natural Gas
Entry Field 18	Sales Data Suppression Code	2 - Code is for use by the Cert Team 5 - Police vehicle 9 - Model type was used in another index but required to support calculation of a new model type.

Entry Field 1:
Input Record Type
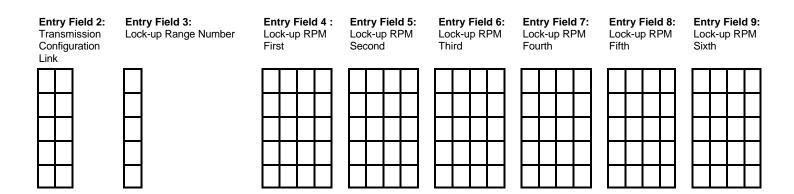
G	R

Entry Field 2: Transmission Configuration Link	**Entry Field 3:** Gear Range Number	**Entry Field 4:** Gear Ratio First	**Entry Field 5:** Gear Ratio Second	**Entry Field d 6:** Gear Ratio Third	**Entry Field 7:** Gear Ratio Fourth	**Entry Field 8:** Gear Ratio Fifth	**Entry Field 9:** Gear Ratio Sixth	**Entry Field 10:** Lockup Override
0 1		3 ● 1 0 0	2 ● 5 0 0	1 ● 5 0 0	1 ● 0 0 2	0 ● 8 0 0	●	N

Entry Field 1:
Input Record Type

G	L

Entry Field 2: Transmission Configuration Link	**Entry Field 3:** Lock-up Range Number	**Entry Field 4 :** Lock-up RPM First	**Entry Field 5:** Lock-up RPM Second	**Entry Field 6:** Lock-up RPM Third	**Entry Field 7:** Lock-up RPM Fourth	**Entry Field 8:** Lock-up RPM Fifth	**Entry Field 9:** Lock-up RPM Sixth

GR and GL - General Label Entry Field Descriptions

Entry Field 1	Input Record Type	GR
Entry Field 2	Transmission Configuration Link	01-99 Linkage field to 'GF' and 'GL' input records.
Entry Field 3	Gear Range Number	1-9 - Indicates gear range number O - Indicates ratios entered are normal gear ratios (O/D not engaged) N - Indicates ratios entered are O/D gear ratios (O/D engaged) L - Low end, range of gear ratios H - High end, range of gear ratios *Note*: Required if Gear Range data is entered.
Entry Field 4	Gear Ratio First	0.000-9.999
Entry Field 5	Gear Ratio Second	0.000-9.999
Entry Field 6	Gear Ratio Third	0.000-9.999
Entry Field 7	Gear Ratio Fourth	0.000-9.999
Entry Field 8	Gear Ratio Fifth	0.000-9.999
Entry Field 9	Gear Ratio Sixth	0.000-9.999
Entry Field 10	Lockup Override	Y - Yes *Note:* Default is 'N'. N - No

Entry Field 2	Transmission Configuration Link	01-99 Linkage field to 'GR' and 'GF' input records.
Entry Field 3	Lock-up Range Number	1-9 - Indicates lockup range number L - Low end, range of RPM's H - High end, range of RPM's *Note*: Required if Lock-up RPM data is entered.
Entry Field 4	Lock-up RPM First	0000-9999
Entry Field 5	Lock-up RPM Second	0000-9999
Entry Field 6	Lock-up RPM Third	0000-9999
Entry Field 7	Lock-up RPM Fourth	0000-9999
Entry Field 8	Lock-up RPM Fifth	0000-9999
Entry Field 9	Lock-up RPM Sixth	0000-9999

Entry Field 1	Input Record Type	GL

CFEIS General Label Entry Form (SAMPLE)

EPA

Entry Field 1: Input Record Type

Entry Field 2: Comments

| G | C | T | H | I | S | | I | S | | A | | S | A | M | P | L | E | | G | E | N | E | R | A | L | | L | A | B | E | L | | | | | | | | | | | | | | |

GC - General Label Entry Field Descriptions
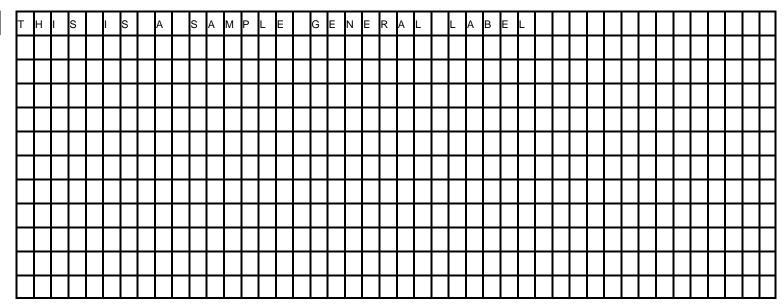
Entry Field 1	Input Record Type	GC
Entry Field 2	Comments	Comments *Note*: Multiple comment input records permitted. 'Replace' deletes old comments and adds new comments, while 'Modify' adds additional input comments to previously stored comments if any.

CFEIS General Label Entry Form (SAMPLE)

✿EPA

Entry Field 1:
Input Record Type

G	F

Entry Field 2:
Manufacturer Code

		5	2

Entry Field 3:
Division Code

0	1

Entry Field 4:
Car Line Code

0	0	1

Entry Field 5:
Transmission Class Link

0	1

Entry Field 6:
DVC

0	0	1

Entry Field 7:
Transmission Configuration Link

0	1

Entry Field 8:
Axle Ratio

3	●	0	7
	●		
	●		
	●		
	●		

Entry Field 9:
Engine Code

M	1	1	0	-	3	2	B	-	2					

Entry Field 10:
RLC

0	1

Entry Field 11:
ETW

	3	8	7	5

Entry Field 12:
RLHP

		●	
		●	
		●	
		●	
		●	

Entry Field 13:
Altitude Code

3

Entry Field 14:
Engine Family/Test Group Name

X	T	M	X	V	0	3	.	2	A	B	C

Entry Field 15:
Sub-Configuration Sales

		3	0	0	0

GF - General Label Entry Field Descriptions

Entry Field 1	Input Record Type	GF
Entry Field 2	Manufacturer Code	Valid MANUFACTURER CODE
Entry Field 3	Division Code	Valid DIVISION CODE *Note*: Must be associated with the above MANUFACTURER CODE.
Entry Field 4	Car Line Code	Valid CAR LINE CODE
Entry Field 5	Transmission Class Link	01-99 Linkage field to 'G2' and 'GM' input records.
Entry Field 6	DVC	001-499: A portion of this configuration is represented by a test vehicle.
Entry Field 7	Transmission Configuration Link	01-99 Linkage field to 'GR' and 'GL' input records.
Entry Field 8	Axle Ratio	0.00-9.99
Entry Field 9	Engine Code	ENGINE CODE
Entry Field 10	RLC	01-49: Used for subconfigurations represented by a test vehicle.
Entry Field 11	ETW	Valid Equivalent Test Weight within a specified Inertia Weight Class as defined in paragraph §86-129-80 of the 40 CFR
Entry Field 12	RLHP	00.0-99.9
Entry Field 13	Altitude Code	1 - Low altitude only 2 - High altitude only 3 - All altitudes *Note:* Default is '3'.
Entry Field 14	Engine Family/ Test Group Name	Valid ENGINE FAMILY/ TEST GROUP NAME

Entry Field 15	Sub-Configuration Sales	000001-999999

☘EPA

Entry Field 1:
Input Record Type

G	T

Entry Field 2:
DVC

0	0	1

Entry Field 3:
RLC

0	1

Entry Field 4:
Averaging Group
Indicator

Entry Field 5:
City Highway
Indicator

Entry Field 6:
Test Group
Weighting

Entry Field 7:
Test Number

Entry Field 8:
Test Data
Suppression Code

2

Entry Field 9:
Vehicle Configuration
Number

0	1

GT - General Label Entry Field Descriptions

Entry Field 1	Input Record Type	GT
Entry Field 2	DVC	001-499: A portion of this configuration is represented by a test vehicle. 501-999: No portion of this configuration is represented by a test vehicle.
Entry Field 3	RLC	01-49: Used for subconfigurations represented by a test vehicle. 51-99: Used for subconfiguration not represented by a test vehicle.
Entry Field 4	Averaging Group Indicator	A-Z, 1-9 *Note*: Links a group of City or Highway weighted group tests which may span multiple input records. This is only needed when spanning multiple input records for a group of city or highway tests.
Entry Field 5	City Highway Indicator	C - City Test H - Highway Test
Entry Field 6	Test Group Weighting	0.00-1.00
Entry Field 7	Test Number	Valid existing test number
Entry Field 8	Test Data Suppression Code	2 - Code is for use by the Cert Team 5 - Police vehicle 9 - Model type was used in another index but required to support calculation of a new model type or for cards previously used but used again as a data substitution.
Entry Field 9	Vehicle Configuration Number	Vehicle (VI) Configuration Number the test is entered against

CFEIS CAFE Entry Form (SAMPLE)

✿EPA

Index Number: _____

Entry Field 1:
Input Record
Type

| F | 1 |

Entry Field 2:
Process Code

| |

Entry Field 3:
Manufacturer
Code

| | 5 | 2 |

Entry Field 4:
Index Number

| | | 1 |

Entry Field 5:
Model Year

| 1 | 9 | 9 | 9 |

Entry Field 6:
Cubic Inch
Displacement

| 1 | 9 | 6 |

Entry Field 7:
Number of
Cylinders

| | 6 |

Entry Field 8:
Combustion Cycle

| G |

Entry Field 9:
Fuel Injection

| M |

Entry Field 10:
Number of Venturi

| | 0 |

Entry Field 11:
Catalyst

| Y |

Entry Field 12:
Feedback Fuel System

| Y |

Entry Field 13:
Variable Displacement

| N |

Entry Field 14:
Turbocharged

| N |

Entry Field 15:
Supercharged

| N |

Entry Field 16:
Number of Valves
per Cylinder

| | 4 |

Entry Field 17:
Police Vehicle

| N |

Entry Field 18:
Engine Block Descriptors

| 1 | 6 | | | | | | | |

Entry Field 19:
Compliance
Category

| 2 |

F1 - CAFE Entry Field Descriptions

Entry Field 1	Input Record Type	F1
Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Replace*: 'R' For *Delete*: 'D' For *Reprocess*: 'S'
Entry Field 3	Manufacturer Code	Valid MANUFACTURER CODE
Entry Field 4	Index Number	001-999
Entry Field 5	Model Year	1970-2100
Entry Field 6	Cubic Inch Displacement	000-999
Entry Field 7	Number of Cylinders	00-99
Entry Field 8	Combustion Cycle	G - Otto Cycle (SI) Piston R - Otto Cycle (SI) Rotary D - Diesel Cycle (CI) 2 - Two Stroke Cycle T - Turbine H - Hybrid Electric E - Electric A - Other
Entry Field 9	Fuel Injection	N - No S - Single M - Multi-point (Default for diesels)
Entry Field 10	Number of Venturi	00 - 99 *Note:* Default is '00'.
Entry Field 11	Catalyst	Y - Yes *Note:* Default is 'Y' N - No
Entry Field 12	Feedback Fuel System	Y - Yes *Note:* Default is 'Y' N - No
Entry Field 13	Variable Displacement	Y - Yes *Note:* Default is 'N' N - No
Entry Field 14	Turbocharged	Y - Yes *Note:* Default is 'N'. N - No C - Yes, with charge air cooling

Entry Field 15	Supercharged	Y - Yes *Note:* Default is 'N'. N - No C - Yes, with charge air cooling
Entry Field 16	Number of Valves per Cylinder	00-09
Entry Field 17	Police Vehicle	Y - Yes *Note:* Default is 'N' N - No
Entry Field 18	Engine Block Descriptors	Text *Note:* Default is 'Blank'.
Entry Field 19	Compliance Category	1 - Domestic Passenger Vehicles 2 - Import Passenger Vehicles 7 - Domestic Trucks 8 - Import Trucks

CFEIS CAFE Entry Form (SAMPLE)

EPA

Entry Field 1: Input Record Type	Entry Field 2: Transmission Class Link	Entry Field 3: Transmission Type	Entry Field 4: Drive System	Entry Field 5: Transmission Overdrive	Entry Field 6: Shift Indicator Light	Entry Field 7: Engine Management System	Entry Field 8: Number of Transmission Modes	Entry Field 9: Variable Lockup Point	Entry Field 10: Declutching / Freewheeling
F 2	0 1	L 5	R	2	N	Y	1	1	N

F2 - CAFE Entry Field Descriptions

Entry Field 1	Input Record Type	F2
Entry Field 2	Transmission Class	01-99 Linkage field to 'FF' input record.
Entry Field 3	Transmission Type	C4 - Creeper/Manual 4 - speed M3 - Manual 3 - speed B3 - Both C4 & M3 C5 - Creeper/Manual 5 - speed M4 - No creeper/Manual 4 - speed B4 - Both C5 & M4 M5 - Manual 5 - speed M6 - Manual 6 - speed A3 - No lockup/automatic/3 - speed L3 - Lockup/automatic/3 - speed A4 - No lockup/automatic/4 - speed A5 - No lockup/automatic/5 - speed L4 - Lockup/automatic/4 - speed L5 - Lockup/automatic/5 - speed AV - Automatic variable gear ratios S2 - Semi-automatic 2 - speed S3 - Semi-automatic 3 - speed S4 - Semi-automatic 4 - speed S5 - Semi-automatic 5 - speed
Entry Field 4	Drive System	4 - 4 wheel drive F - 2 wheel drive, front R - 2 wheel drive, rear
Entry Field 5	Transmission Overdrive	1 - No gear ratio < 1 2 - Top gear ratio < 1 *Note:* Default is '2'.
Entry Field 6	Shift Indicator Light	Y - Yes *Note:* Default is 'N'. N - No
Entry Field 7	Engine Management System	Y - Yes Note: Default is 'N'. N - No L - Yes with lockout features

Entry Field 8	Number of Transmission Modes	V - Continuously variable, user selectable C - Computer controlled multiple gear ratios 1-9 - Discrete user-selectable transmission mode N - Not Applicable *Note:* Default is 'N'.
Entry Field 9	Variable Lockup Point	*N, blank* - No variable lock-up point V - Continuously variable C - Computer controlled lock-up 1-9 - Number of discrete lock-up rpm ranges
Entry Field 10	Declutching / Freewheeling	Y - Yes *Note:* Default is 'N'. N - No L - Yes, but with lock-out features

Index Number:_____

EPA

Entry Field 1:
Input Record
Type

| F | R |

Entry Field 2:
Transmission
Configuration Link

| 0 | 1 |

Entry Field 3:
Gear Range
Number

Entry Field 4:
Gear Ratio First

| 3 | ● | 1 | 0 | 0 |

Entry Field 5:
Gear Ratio Second

| 2 | ● | 5 | 0 | 0 |

Entry Field 6:
Gear Ratio Third

| 0 | ● | 8 | 0 | 0 |

Entry Field 7:
Gear Ratio Fourth

Entry Field 8:
Gear Ratio Fifth

Entry Field 9:
Gear Ratio Sixth

Entry Field 10:
Lockup Override

Entry Field 1:
Input Record
Type

| F | L |

Entry Field 2:
Transmiission
Configuration
Link

Entry Field 3:
Lock-up Range
Number

Entry Field 4:
Lock-up RPM
First

Entry Field 5:
Lock-up RPM
Second

Entry Field 6:
Lock-up RPM
Third

Entry Field 7:
Lock-up RPM
Fourth

Entry Field 8:
Lock-up RPM
Fifth

Entry Field 9:
Lock-up RPM
Sixth

FR and FL - CAFE Entry Field Descriptions

Entry Field 1	Input Record Type	FR
Entry Field 2	Transmission Configuration Link	01-99 Linkage field to 'FF' and 'FL' input records.
Entry Field 3	Gear Range Number	1-9 - Indicates gear range number O - Indicates ratios entered are normal gear ratios (O/D not engaged) N - Indicates ratios entered are O/D gear ratios (O/D engaged) L - Low-end range of gear ratios H - High-end range of gear ratios *Note*: Required if Gear Range data is entered.
Entry Field 4	Gear Ratio First	0.000-9.999
Entry Field 5	Gear Ratio Second	0.000-9.999
Entry Field 6	Gear Ratio Third	0.000-9.999
Entry Field 7	Gear Ratio Fourth	0.000-9.999
Entry Field 8	Gear Ratio Fifth	0.000-9.999
Entry Field 9	Gear Ratio Sixth	0.000-9.999
Entry Field 10	Lockup Override	Y - Yes *Note:* Default is 'N'. N - No

Entry Field 1	Input Record Type	FL
Entry Field 2	Transmission Configuration Link	01-99 Linkage field to 'FR' and 'FF' input records.
Entry Field 3	Lock-up Range Number	1-9 - Indicates lockup range number L - Low-end range of RPM's H - High-end range of RPM's *Note*: Required if Lock-up RPM data is entered.
Entry Field 4	Lock-up RPM First	0000-9999
Entry Field 5	Lock-up RPM Second	0000-9999
Entry Field 6	Lock-up RPM Third	0000-9999
Entry Field 7	Lock-up RPM Fourth	0000-9999
Entry Field 8	Lock-up RPM Fifth	0000-9999
Entry Field 9	Lock-up RPM Sixth	0000-9999

CFEIS CAFE Entry Form (SAMPLE)

EPA

Index Number:_____

Entry Field 1:
Input Record
Type

Entry Field 2:
Comments

F	C

| T | H | I | S | | I | S | | A | | S | A | M | P | L | E | | C | A | F | E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

FC - CAFE Entry Field Descriptions

Entry Field 1	Input Record Type	FC
Entry Field 2	Comments	Comments *Note*: Multiple comment input records permitted. 'Replace' deletes old comments and adds new comments, while 'Modify' adds additional input comments to previously stored comments if any.

CFEIS CAFE Entry Form (SAMPLE)

♻EPA

Entry Field 1:
Input Record Type

F	F

Index Number:_____

Entry Field 2:
Manufacturer Code

		5	2

Entry Field 3:
Division Code

0	1

Entry Field 4:
Car Line Code

0	0	1

Entry Field 5:
Transmission Class Link

0	1

Entry Field 6:
DVC

0	0	1

Entry Field 7:
Transmission Configuration Link

0	1

Entry Field 8:
Axle Ratio

3	●	0	7
	●		
	●		
	●		
	●		
	●		
	●		

Entry Field 9:
Engine Code

M	1	0	-	3	2	B	-	2			

Entry Field 10:
RLC

0	1

Entry Field 11:
ETW

	3	8	7	5

Entry Field 12:
RLHP

		●	
		●	
		●	
		●	
		●	
		●	
		●	

Entry Field 13:
Altitude Code

3

Entry Field 14:
Engine Family Name

X	T	M	X	V	0	3	.	2	A	B	C

Entry Field 15:
Sub-Configuration Sales

		3	0	0	0

FF - CAFE Entry Field Descriptions

Entry Field 1	Input Record Type	FF
Entry Field 2	Manufacturer Code	Valid MANUFACTURER CODE
Entry Field 3	Division Code	Valid DIVISION CODE *Note*: Must be associated with a MANUFACTURER CODE.
Entry Field 4	Car Line Code	Valid CAR LINE CODE
Entry Field 5	Transmission Class Link	01-99 Linkage field to 'F2' input record.
Entry Field 6	DVC	001-499: A portion of this configuration is represented by a test vehicle. 501-999: No portion of this configuration is represented by a test vehicle.
Entry Field 7	Transmission Configuration Link	01-99 Linkage field to 'FR' and 'FL' input records.
Entry Field 8	Axle Ratio	0.00-9.99
Entry Field 9	Engine Code	ENGINE CODE
Entry Field 10	RLC	01-49: Used for subconfigurations represented by a test vehicle. 51-99: Used for subconfiguration not represented by a test vehicle.
Entry Field 11	ETW	Valid Equivalent Test Weight within a specified Inertia Weight Class as defined in paragraph § 86-129-80 of the 40 CFR.

Entry Field 12	RLHP	00.0-99.9
Entry Field 13	Altitude Code	1 - Low altitude only 2 - High altitude only 3 - All altitudes *Note:* Default is '3'.
Entry Field 14	Engine Family Name	Valid ENGINE FAMILY NAME
Entry Field 15	Sub-Configuration Sales	000001-999999

Index Number:_____

Entry Field 1: Input Record Type	**Entry Field 2:** DVC	**Entry Field 3:** RLC	**Entry Field 4:** Averaging Group Indicator	**Entry Field 5:** City Highway Indicator	**Entry Field 6:** Test Group Weighting	**Entry Field 7:** Test Number	**Entry Field 8:** Vehicle Configuration Number
F T	0 0 1	0 1			●		0 1

FT - CAFE Entry Field Descriptions

Entry Field 1	Input Record Type	FT
Entry Field 2	DVC	001-499: A portion of this configuration is represented by a test vehicle.
Entry Field 3	RLC	01-49: Used for subconfigurations represented by a test vehicle.
Entry Field 4	Averaging Group Indicator	A-Z, 1-9 *Note*: Links a group of City or Highway weighted group tests which may span multiple vehicle configurations. This is only needed when spanning multiple vehicle configurations for a group of city or highway tests.
Entry Field 5	City Highway Indicator	C - City Test H - Highway Test
Entry Field 6	Test Group Weighting	0.00-1.00
Entry Field 7	Test Number	Valid existing test number
Entry Field 8	Vehicle Configuration Number	Vehicle (VI) Configuration Number the test is entered against

IOV CFEIS CAFE Entry Form

≈EPA

Index Number:_____

Entry Field 1:
Input Record Type

F	S

Entry Field 2:
Process Code

Entry Field 3:
Manufacturer Code

		5	2

Entry Field 4:
Model Year

1	9	9	9

Entry Field 5:
Compliance Category

2

Entry Field 6:
Total Sales

		2	0	0	0	0

Entry Field 7:
Average FE Unadjusted
4 Decimal

	●				
	●				
	●				
	●				

Entry Field 8:
Average FE Unadjusted
1 Decimal

	●	
	●	
	●	
	●	

Entry Field 9:
Average FE Adjusted

	●	
	●	
	●	
	●	

Entry Field10:
Applicable Standard

	●	
	●	
	●	
	●	

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FS - CAFE Entry Field Descriptions

Entry Field 1	Input Record Type	FS
Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Replace*: 'R' For *Delete*: 'D' For *Reprocess*: 'S'
Entry Field 3	Manufacturer Code	Valid MANUFACTURER CODE
Entry Field 4	Model Year	1970-2100
Entry Field 5	Compliance Category	1 - Domestic Passenger Vehicles 2 - Import Passenger Vehicles 7 - Domestic Trucks 8 - Import Trucks
Entry Field 6	Total Sales	0000000-9999999
Entry Field 7	Average FE Unadjusted 4 Decimal	00.0000-99.9999
Entry Field 8	Average FE Unadjusted 1 Decimal	00.0-99.9
Entry Field 9	Average FE Adjusted	00.0-99.9
Entry Field 10	Applicable Standard	00.0-99.9